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NEWS 2 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format  
NEWS 3 MAR 16 CASREACT coverage extended  
NEWS 4 MAR 20 MARPAT now updated daily  
NEWS 5 MAR 22 LWPI reloaded  
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements  
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN  
NEWS 8 APR 30 GENBANK reloaded and enhanced with Genome Project ID field  
NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records  
NEWS 10 APR 30 CA/CAPplus enhanced with 1870-1889 U.S. patent records  
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN  
NEWS 12 MAY 01 New CAS web site launched  
NEWS 13 MAY 08 CA/CAPplus Indian patent publication number format defined  
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields  
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data  
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload  
NEWS 17 MAY 21 CA/CAPplus enhanced with additional kind codes for German patents  
NEWS 18 MAY 22 CA/CAPplus enhanced with IPC reclassification in Japanese patents  
NEWS 19 JUN 18 CA/CAPplus to be enhanced with pre-1967 CAS Registry Numbers  
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.  
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FILE 'HOME' ENTERED AT 13:37:36 ON 19 JUN 2007

=> file reg

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

0.21

TOTAL

SESSION

0.21

FILE 'REGISTRY' ENTERED AT 13:37:49 ON 19 JUN 2007  
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STRUCTURE FILE UPDATES: 18 JUN 2007 HIGHEST RN 937778-45-5  
DICTIONARY FILE UPDATES: 18 JUN 2007 HIGHEST RN 937778-45-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

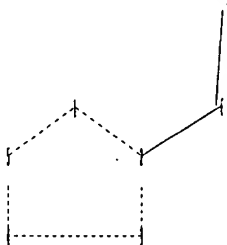
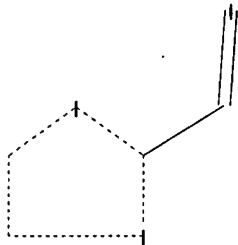
Please note that search-term pricing does apply when  
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=>

Uploading C:\Program Files\Stnexp\Queries\10563361.str



chain nodes :  
6 7  
ring nodes :  
1 2 3 4 5  
chain bonds :  
2-6 6-7  
ring bonds :  
1-2 1-5 2-3 3-4 4-5  
exact/norm bonds :  
1-2 1-5 2-3 3-4 4-5 6-7  
exact bonds :  
2-6  
isolated ring systems :  
containing 1 :

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:38:09 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2973 TO ITERATE

67.3% PROCESSED 2000 ITERATIONS 50 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 56190 TO 62730

PROJECTED ANSWERS: 14608 TO 18034

L2 50 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 13:38:17 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 61008 TO ITERATE

100.0% PROCESSED 61008 ITERATIONS 16926 ANSWERS  
SEARCH TIME: 00.00.01

L3 16926 SEA SSS FUL L1

=>

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 13:38:23 ON 19 JUN 2007

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FILE COVERS 1907 - 19 Jun 2007 VOL 146 ISS 26

FILE LAST UPDATED: 18 Jun 2007 (20070618/ED)

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=> s l3 full

L4 2927 L3

=> s l4 and py<2002

21897388 PY<2002

L5 1823 L4 AND PY<2002

=> d ibib abs hitstr 1-10

L5 ANSWER 1 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:483642 CAPLUS

DOCUMENT NUMBER: 144:482176

TITLE: Hairpin polyamides and tandemly linked hairpin polyamides containing chiral diaminobutyrate with improved DNA binding behavior

INVENTOR(S): Baird, Eldon E.; Dervan, Peter B.

PATENT ASSIGNEE(S): California Institute of Technology, USA

SOURCE: U.S., 61 pp., Cont.-in-part of U.S. Ser. No. 1997-853522.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7049061	B1	20060523	US 1999-374702	19990812
US 6090947	A	20000718	US 1996-607078	19960226 <--
WO 9730975	A2	19970828	WO 1997-US3332	19970220 <--
WO 9730975	A3	19971016		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 6143901	A	20001107	US 1997-837524	19970421 <--
US 6635417	B1	20031021	US 1997-853522	19970508
WO 9850582	A1	19981112	WO 1997-US12722	19970721 <--
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW			
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PRIORITY APPLN. INFO.:

US 1996-607078	A2	19960226
US 1996-23309P	P	19960731
US 1996-24374P	P	19960801
US 1996-26713P	P	19960925
US 1997-38384P	P	19970214
WO 1997-US3332	A2	19970220
US 1997-43444P	P	19970408
US 1997-42022P	P	19970416
US 1997-837524	A2	19970421
US 1997-853522	A2	19970508
WO 1997-US12722	A2	19970721

OTHER SOURCE(S): MARPAT 144:482176

AB This invention provides improved polyamides comprising a hairpin loop derived from  $\gamma$ -aminobutyric acid which bind to the minor groove of a promoter regions of a DNA sequence. Binding of the polyamide to the DNA sequence of the promoter region inhibits expression of the requisite gene. The improvement relates to the use of R-2,4-diaminobutyric acid and derivs. of the 2-amino group to form the hairpin loop. The improved asym. hairpin provides for tighter binding of the polyamides to the minor groove of DNA and addnl. provides an amine function for derivatizing polyamides by, for example, forming amide linkages. Such derivs. may serve to attach detectable labels to the polyamide. Thus, hairpin polyamide



ImPyPy-(R)H<sub>2</sub>Ny-PyPyPy-β-Dp binds to target DNA sequence 5'-TGTTA-3' with 10-fold greater affinity than the parent (γ-aminobutyrate-linked) polyamide ImPyPy-γ-PyPyPy-β-Dp and with 1000-fold greater affinity than the corresponding S isomer. The S isomer (ImPyPy-(S)H<sub>2</sub>Ny-PyPyPy-β-Dp), however, binds to the reverse orientation 5'-ACATT-3' with high affinity. Linkage of two such hairpin polyamide allows for recognition of longer DNA sequences without compromising affinity or selectivity.

IT 204921-44-8P 204921-45-9P 204921-46-0P  
 204921-47-1P 204921-49-3P 204921-50-6P  
 204921-51-7P 204921-52-8P 204921-54-0P  
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RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation)

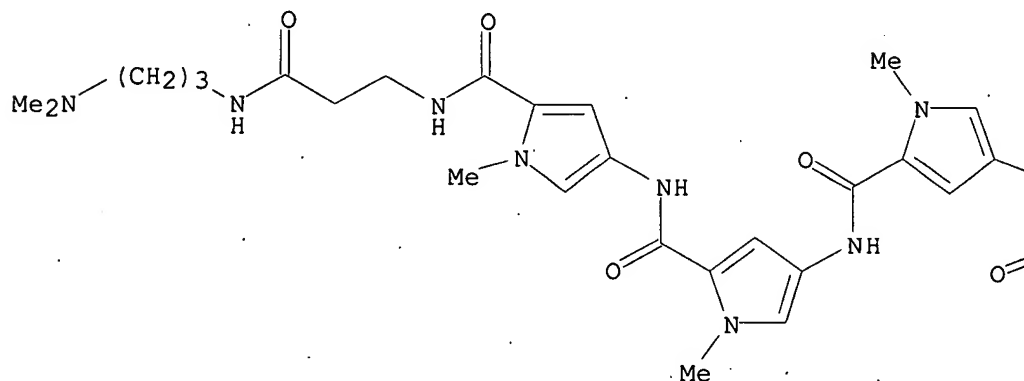
(hairpin polyamides and tandemly linked hairpin polyamides containing chiral diaminobutyrate with improved DNA binding behavior)

RN 204921-44-8 CAPLUS

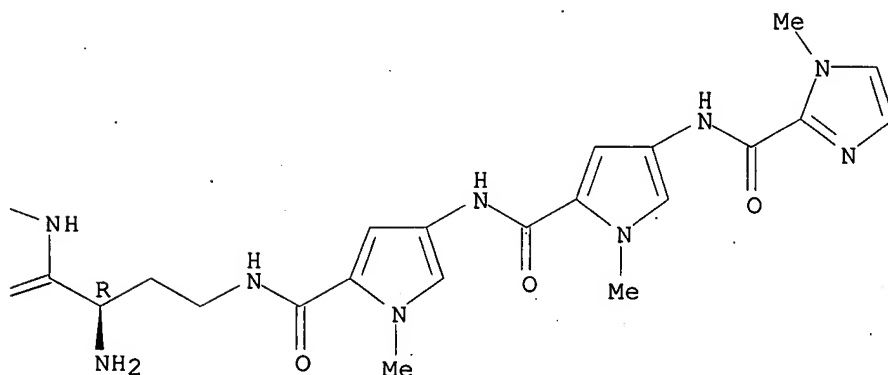
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

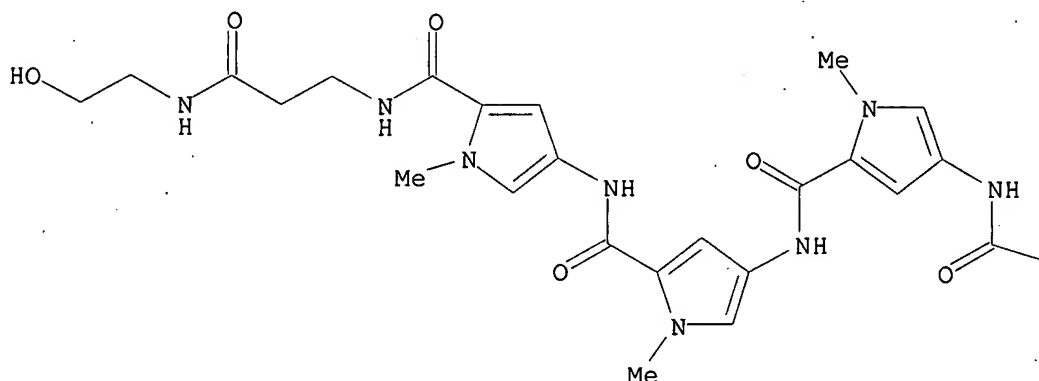


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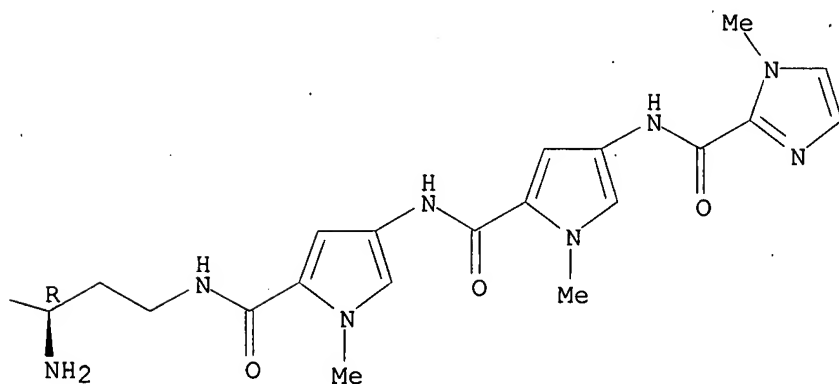
CN	$\beta$ -Alaninamide, N4-[2,3,4,5-tetradehydro-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl]-(2R)-2,4-diaminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-(2-hydroxyethyl)-(9CI) (CA INDEX NAME)
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



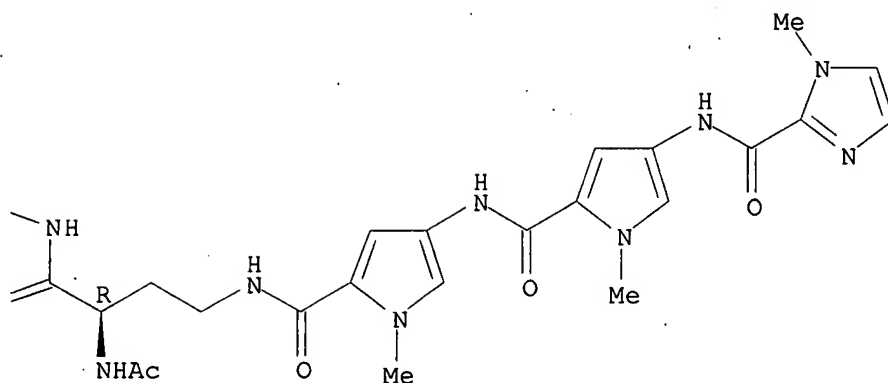
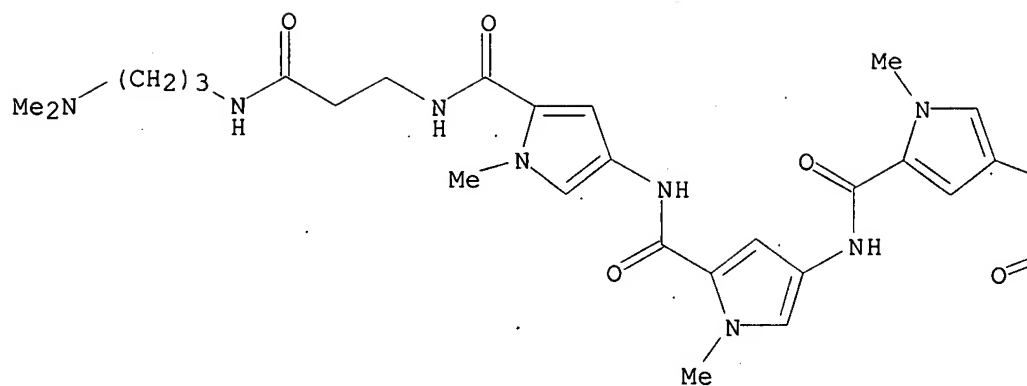
PAGE 1-B



RN 204921-46-0 CAPLUS

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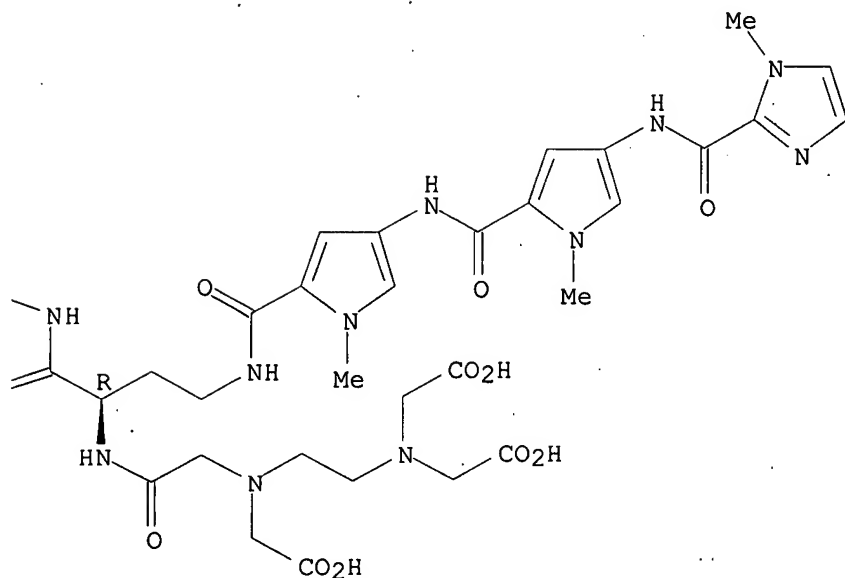
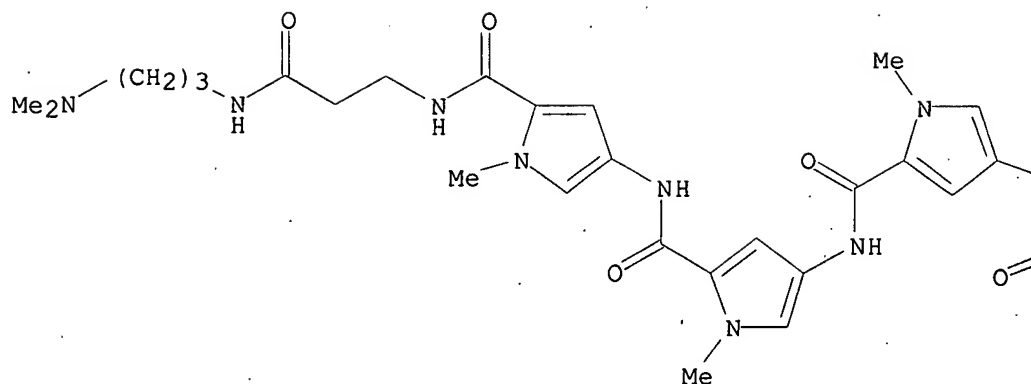
Absolute stereochemistry. Rotation (+).



RN 204921-47-1 CAPLUS

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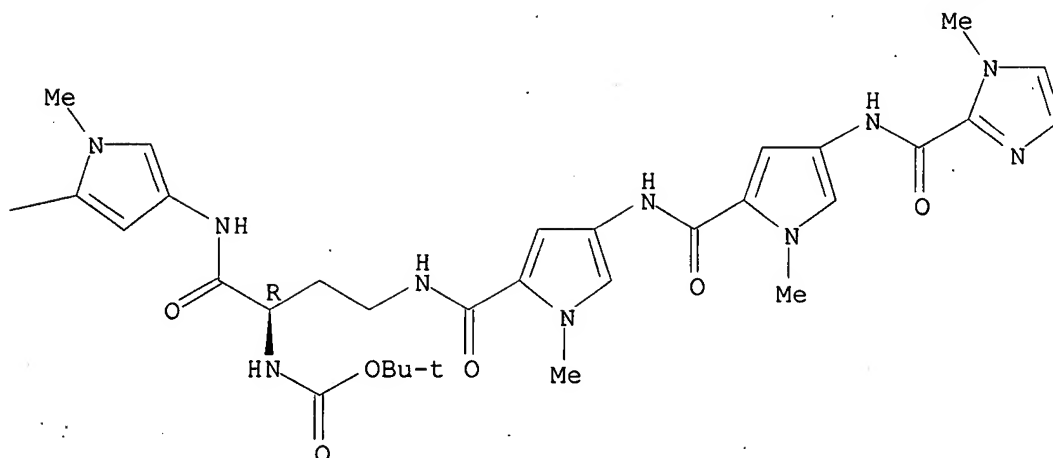
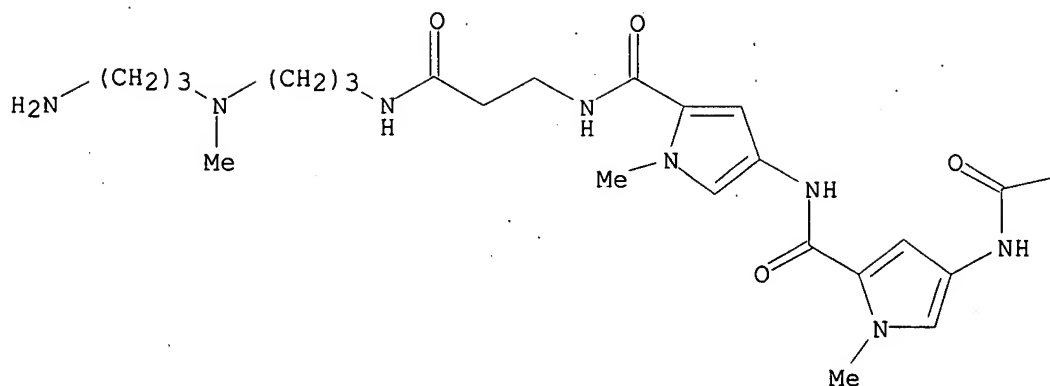
Absolute stereochemistry:



RN 204921-49-3 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-(2R)-4-amino-2-[[[(1,1-dimethylethoxy)carbonyl]amino]butanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[(3-aminopropyl)methylamino]propyl]- (9CI) (CA INDEX NAME)

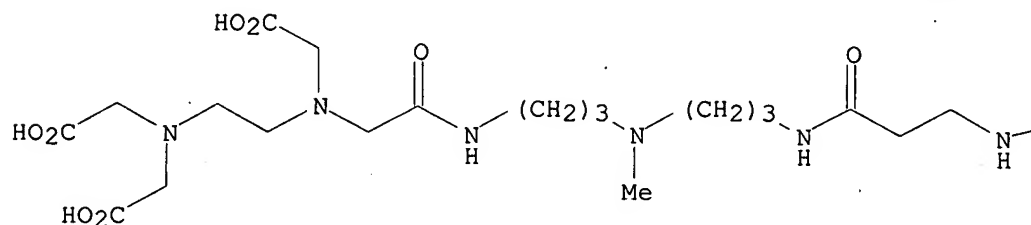
Absolute stereochemistry.



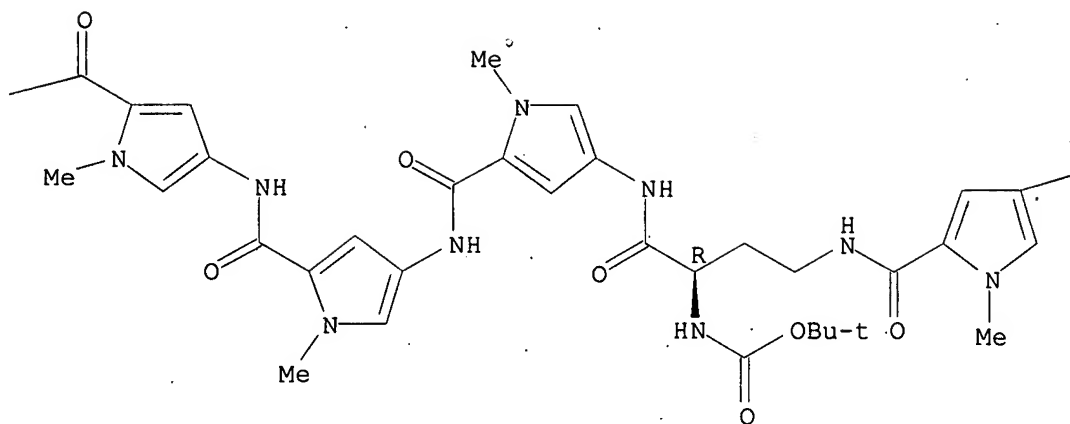
RN 204921-50-6 CAPLUS

CN β-Alaninamide, N2-[(1,1-dimethylethoxy)carbonyl]-N4-[2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl]-(2R)-2,4-diaminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[15-carboxy-11,14-bis(carboxymethyl)-4-methyl-9-oxo-4,8,11,14-tetraazapentadec-1-yl]]- (9CI)  
(CA INDEX NAME)

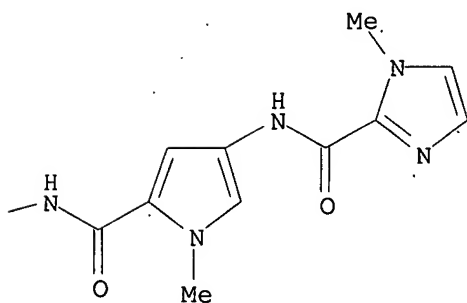
Absolute stereochemistry.



PAGE 1-B



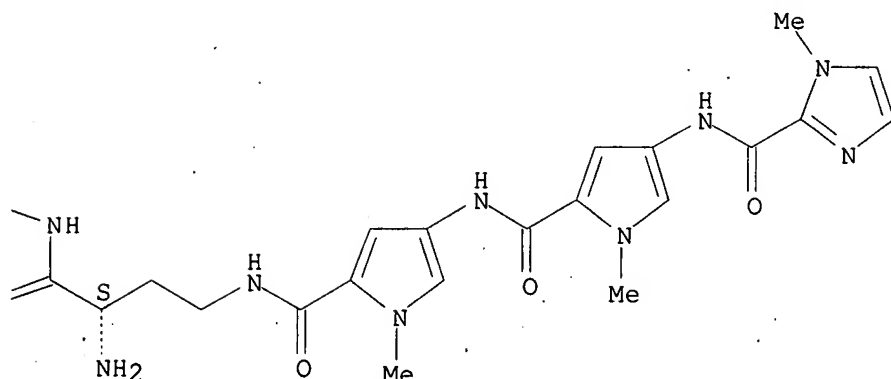
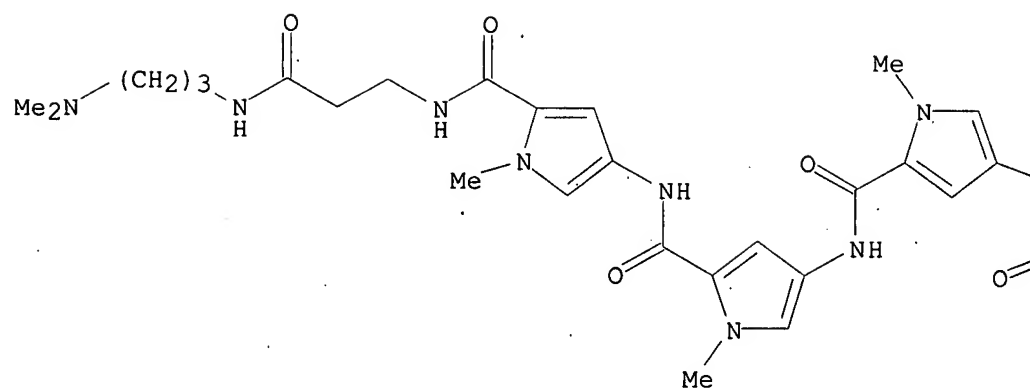
PAGE 1-C



RN 204921-51-7 CAPLUS

CN  $\beta$ -Alaninamide, 4-[[[4-[[[4-[[(2S)-2-amino-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-2,3,4,5-tetrahydro-1-methylprolyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

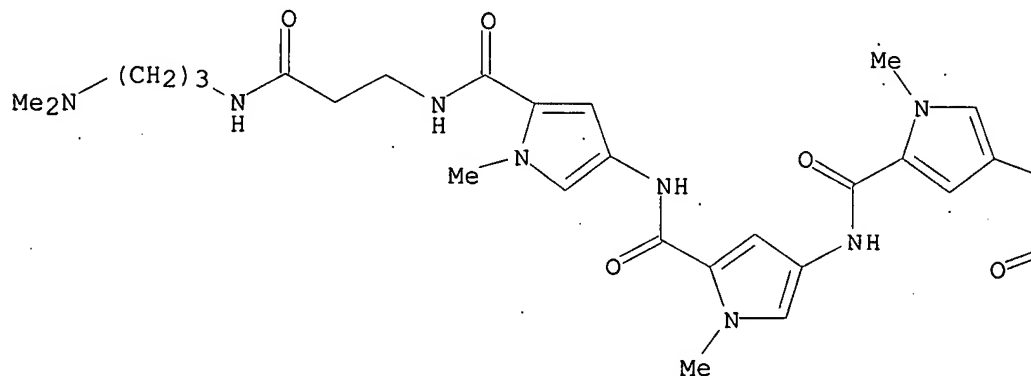
Absolute stereochemistry. Rotation (-).

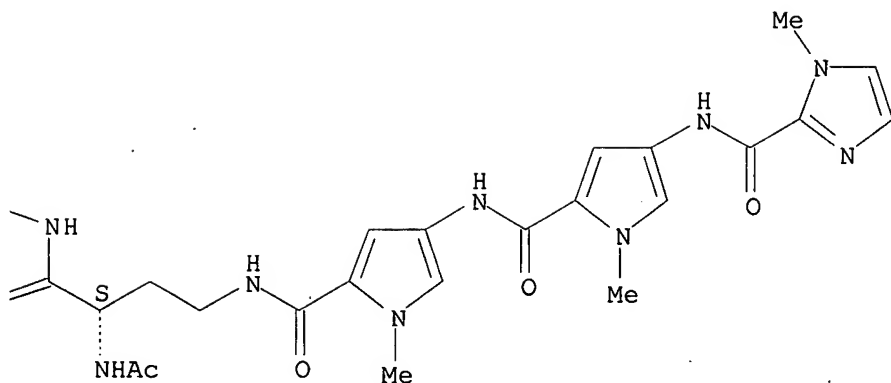


RN 204921-52-8 CAPLUS

CN  $\beta$ -Alaninamide, N4-[2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl]-(2S)-2-(acetylamino)-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

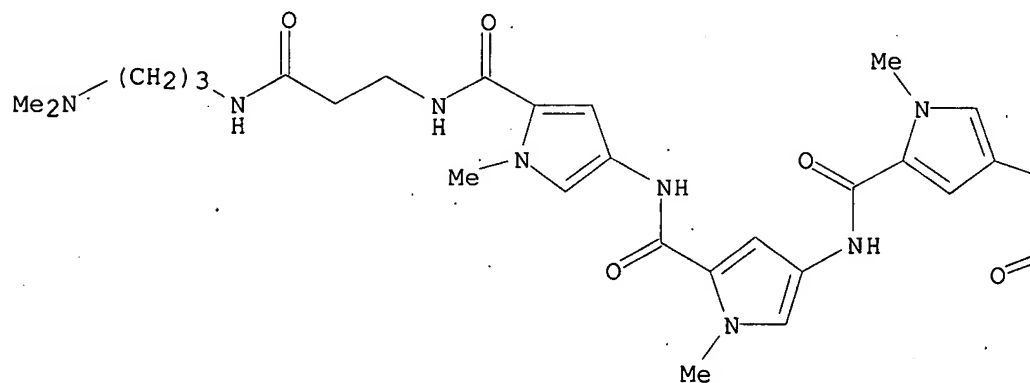
Absolute stereochemistry. Rotation (-).



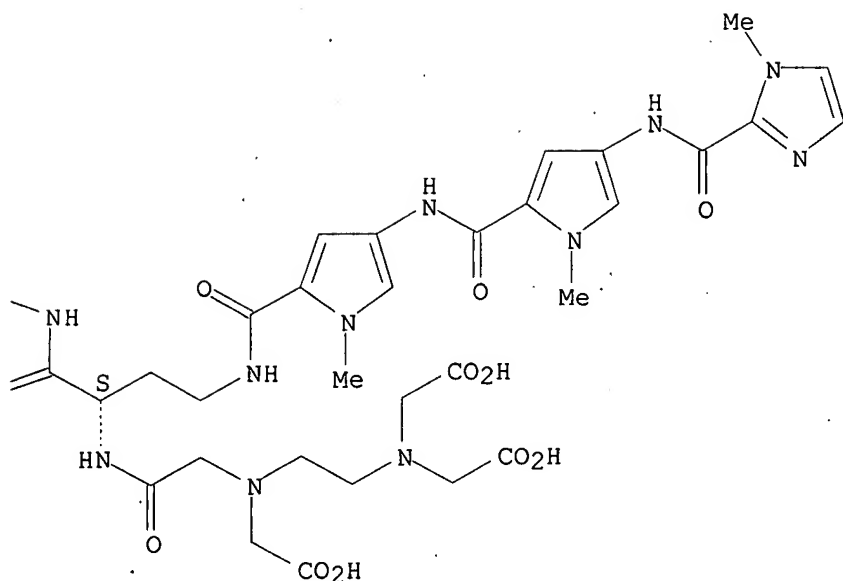


RN 204921-54-0 CAPLUS  
 CN β-Alaninamide, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(carboxymethyl)glycyl-N4-(1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl)-(2S)-2,4-diaminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



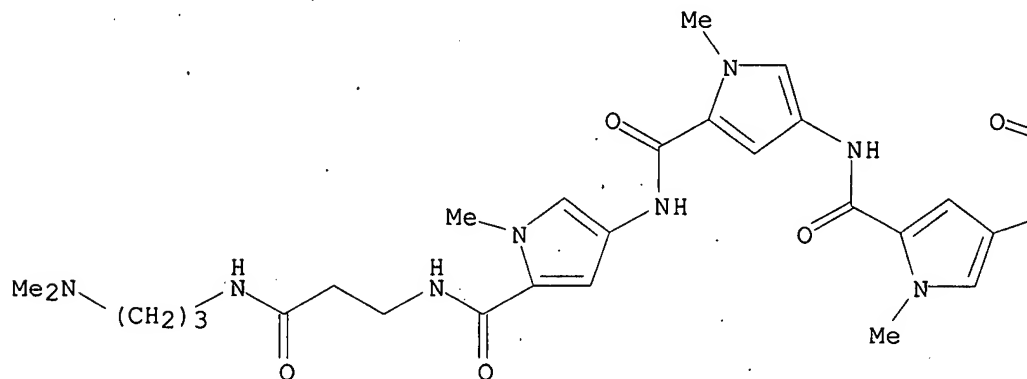


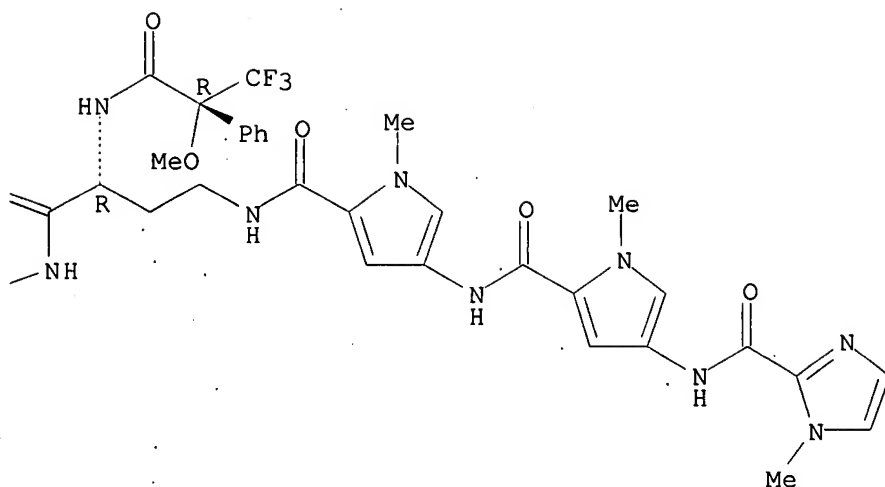


RN 214195-94-5 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-(2R)-4-amino-2-[[ (2R)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropyl] amino]butanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME).

Absolute stereochemistry.

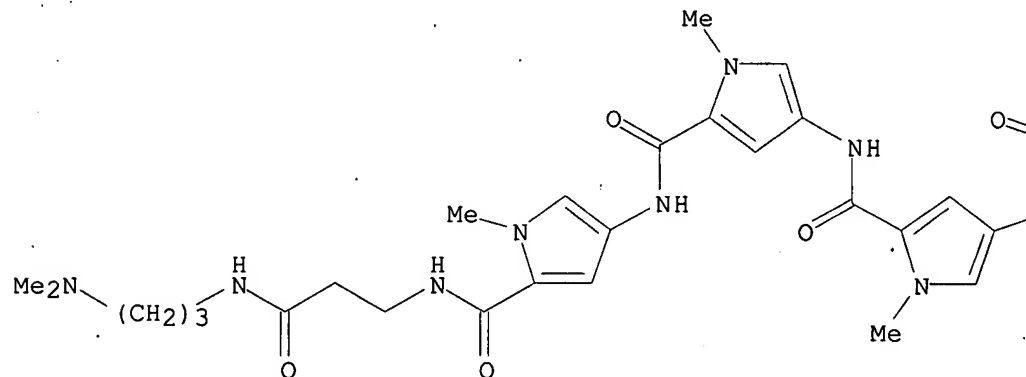


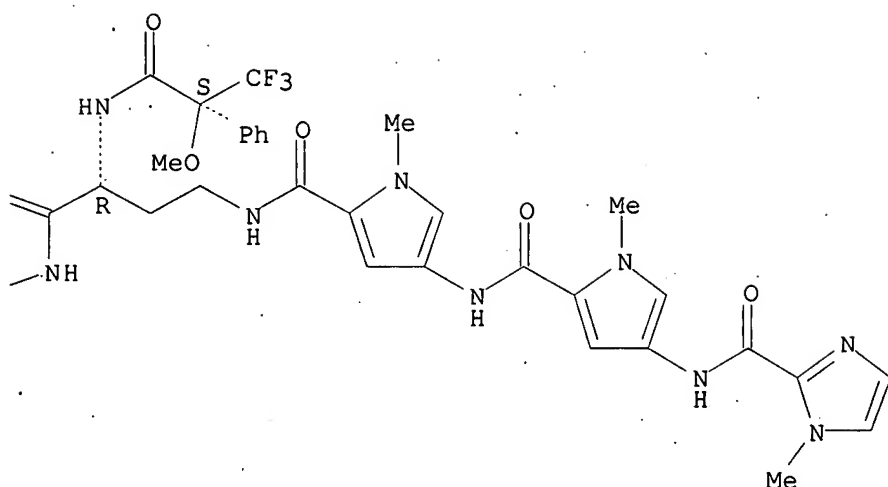


RN 214196-00-6 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-(2R)-4-amino-2-[[[(2S)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropyl]amino]butanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

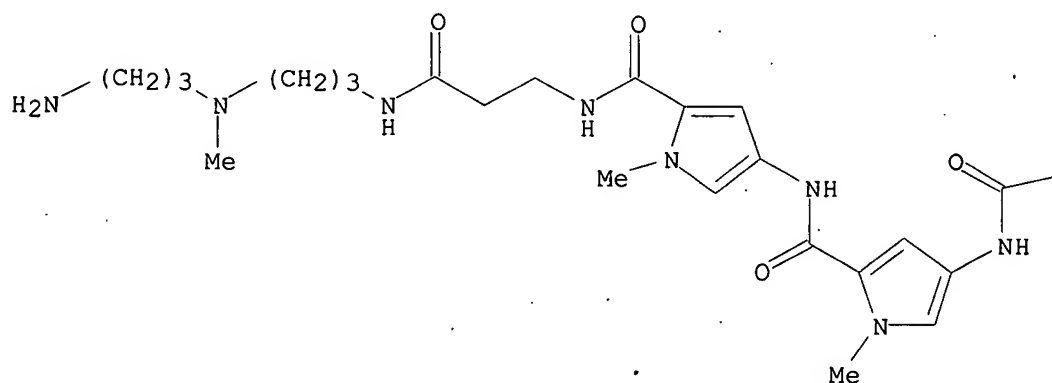


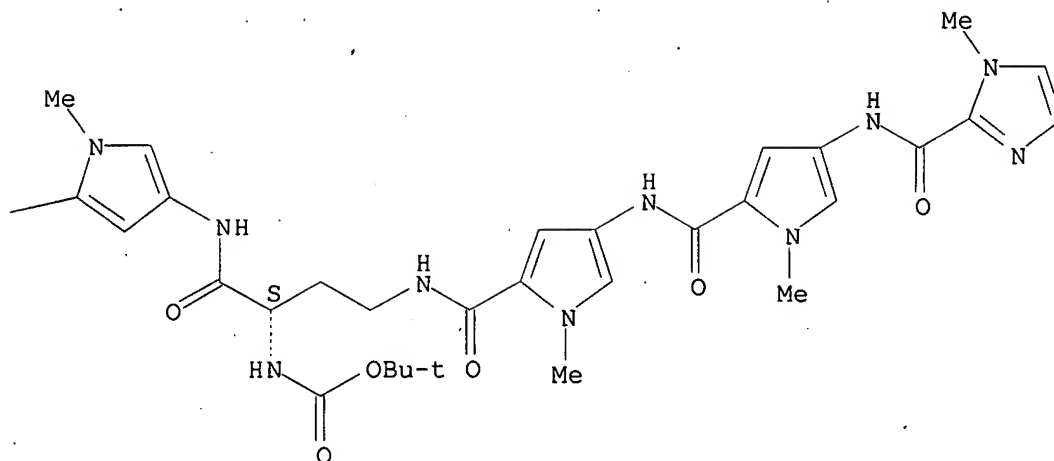


RN 214196-25-5 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-(2S)-4-amino-2-[[[(1,1-dimethylethoxy)carbonyl]amino]butanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[(3-aminopropyl)methylamino]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

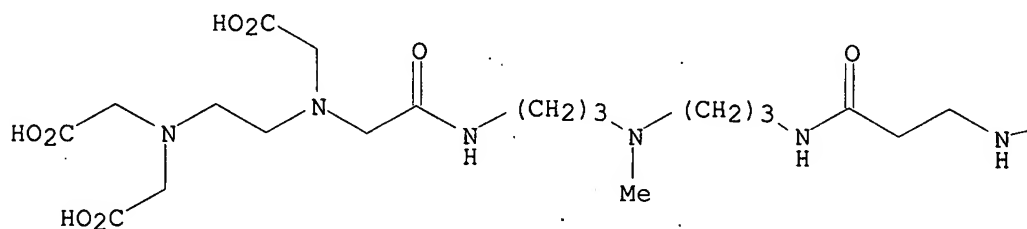


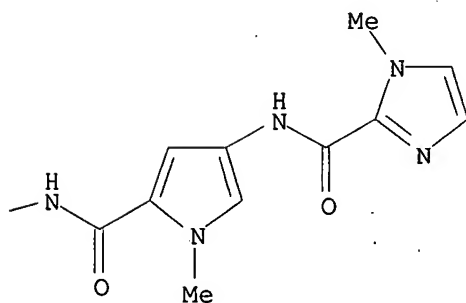
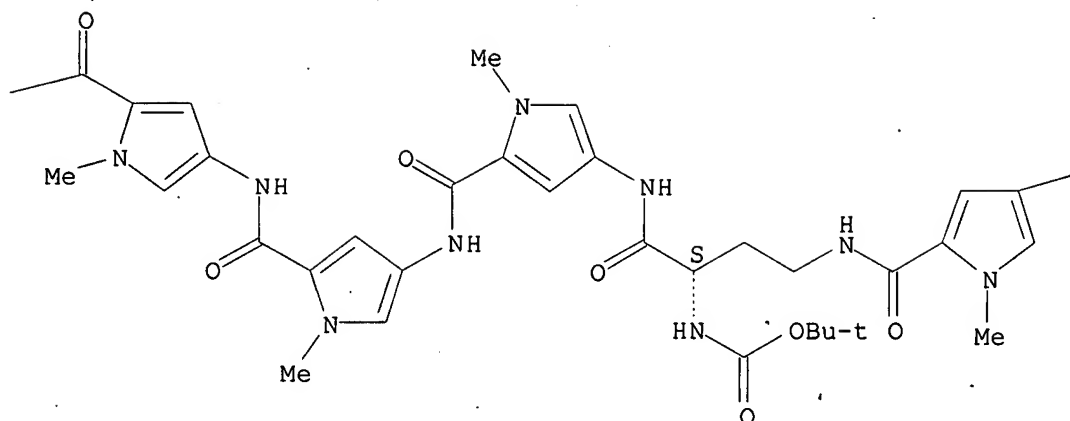


RN 214196-34-6 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-(2S)-4-amino-2-[[[(1,1-dimethylethoxy)carbonyl]amino]butanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[15-carboxy-11,14-bis(carboxymethyl)-4-methyl-9-oxo-4,8,11,14-tetraazapentadec-1-yl]- (9CI)  
(CA INDEX NAME)

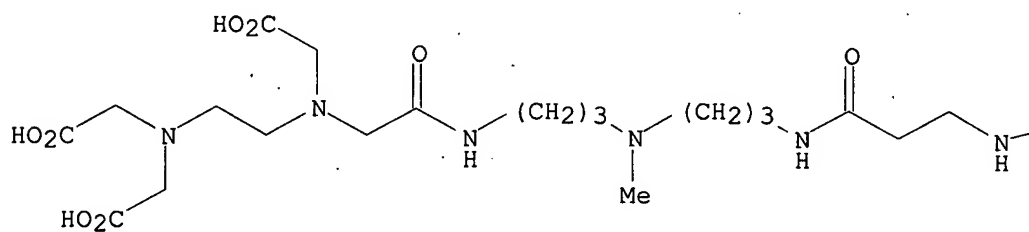
Absolute stereochemistry.

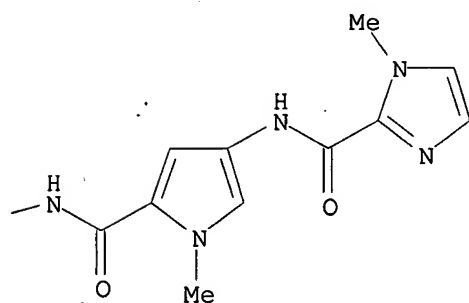
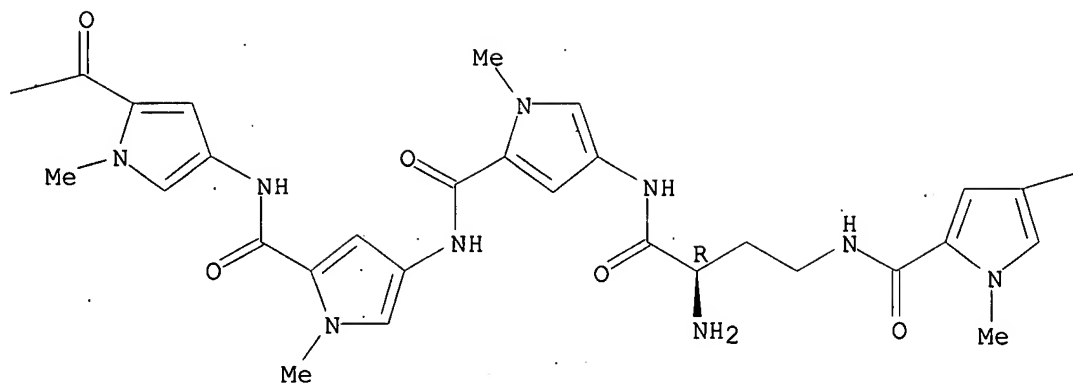




RN 214196-39-1 CAPLUS  
 CN  $\beta$ -Alaninamide, N4-[2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl]-(2R)-2,4-diaminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[15-carboxy-11,14-bis(carboxymethyl)-4-methyl-9-oxo-4,8,11,14-tetraazapentadec-1-yl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

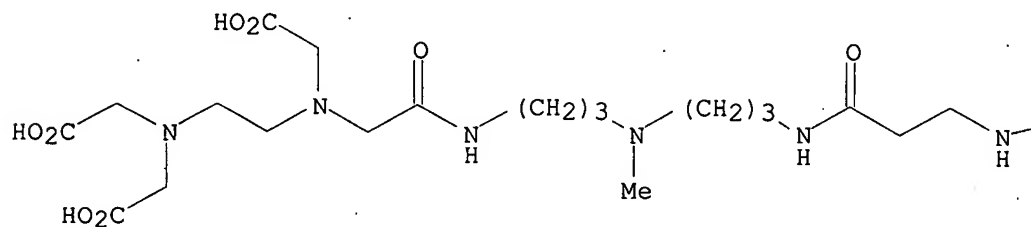


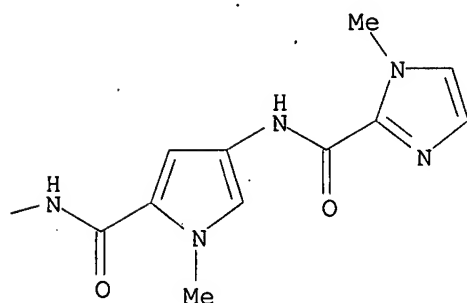
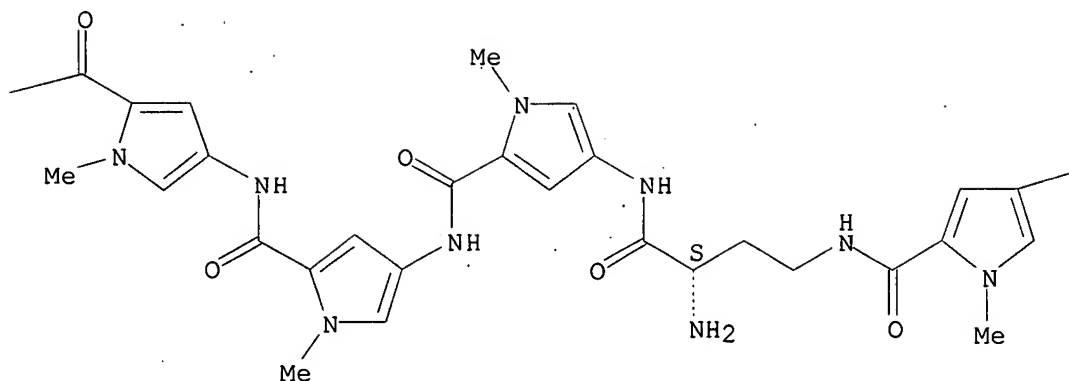


RN 214196-42-6 CAPLUS

CN  $\beta$ -Alaninamide, N4-[2,3,4,5-tetradehydro-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl]-(2S)-2,4-diaminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[15-carboxy-11,14-bis(carboxymethyl)-4-methyl-9-oxo-4,8,11,14-tetraazapentadec-1-yl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

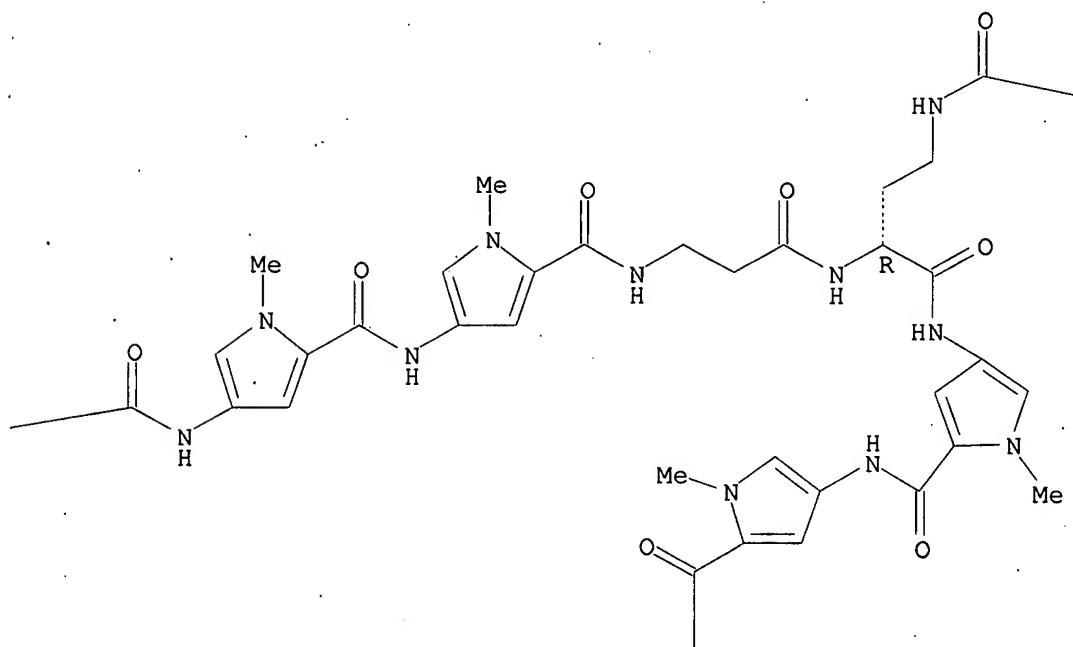
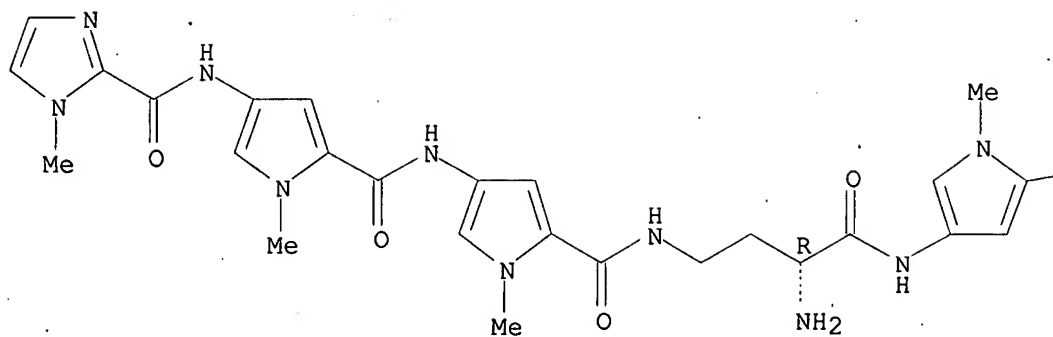




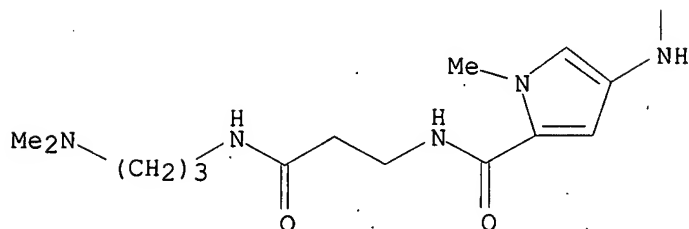
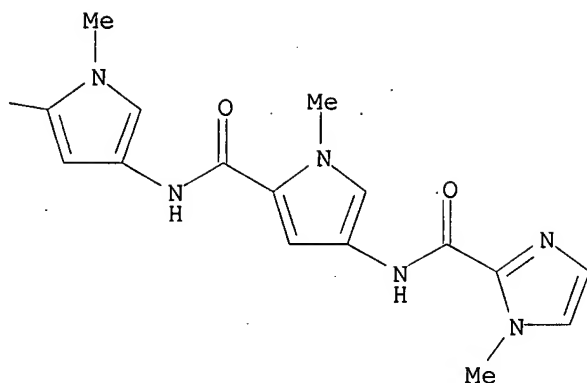
RN 214196-54-0 CAPLUS

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(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



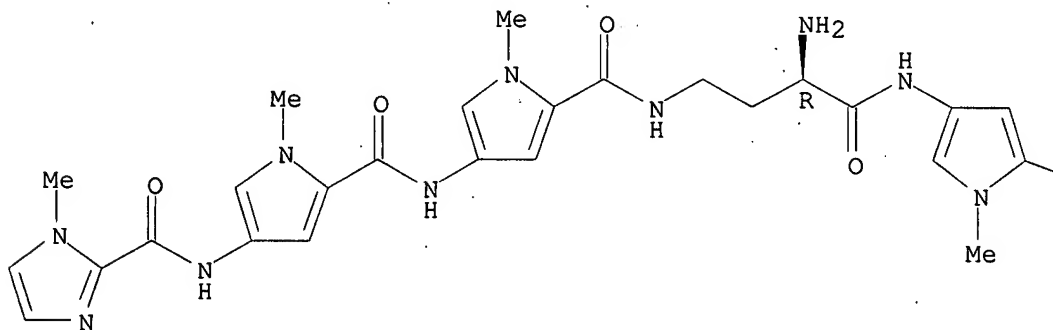




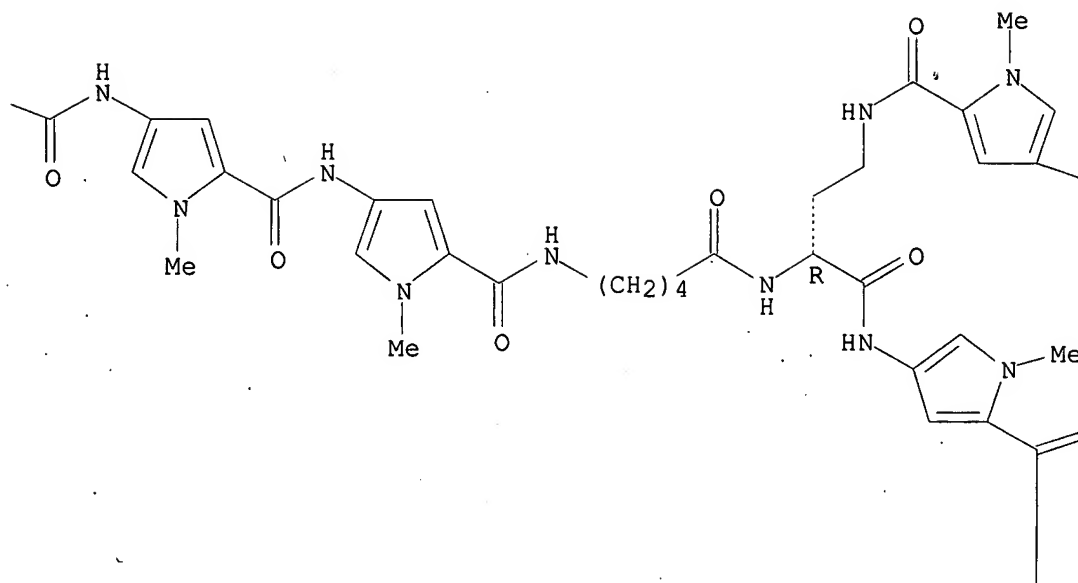
RN 214196-57-3 CAPLUS

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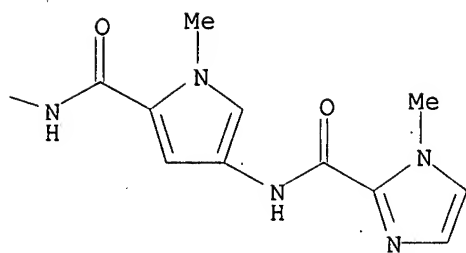
Absolute stereochemistry. Rotation (+).



PAGE 1-B



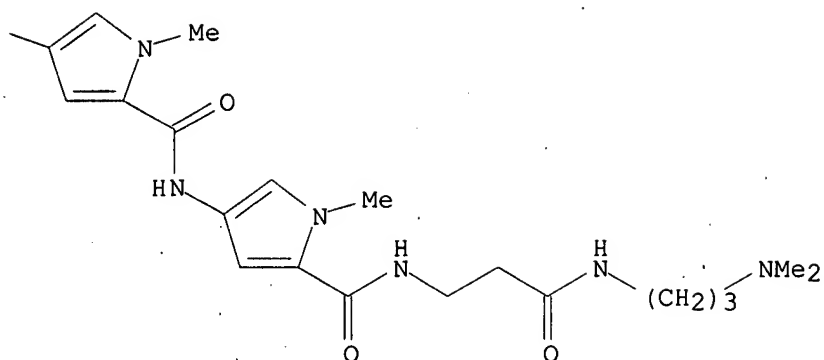
PAGE 1-C



$=O$

PAGE 2-B

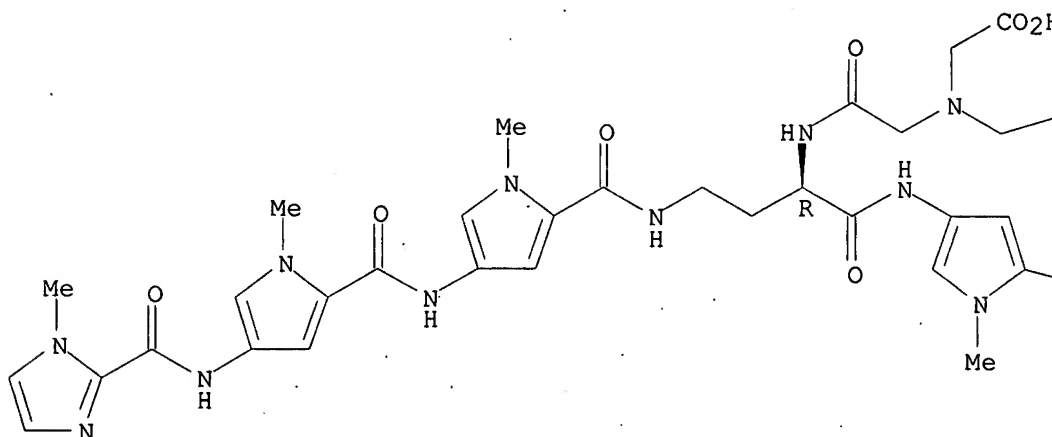
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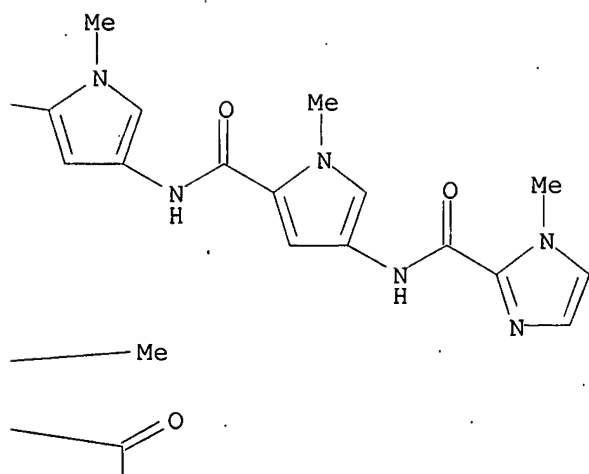
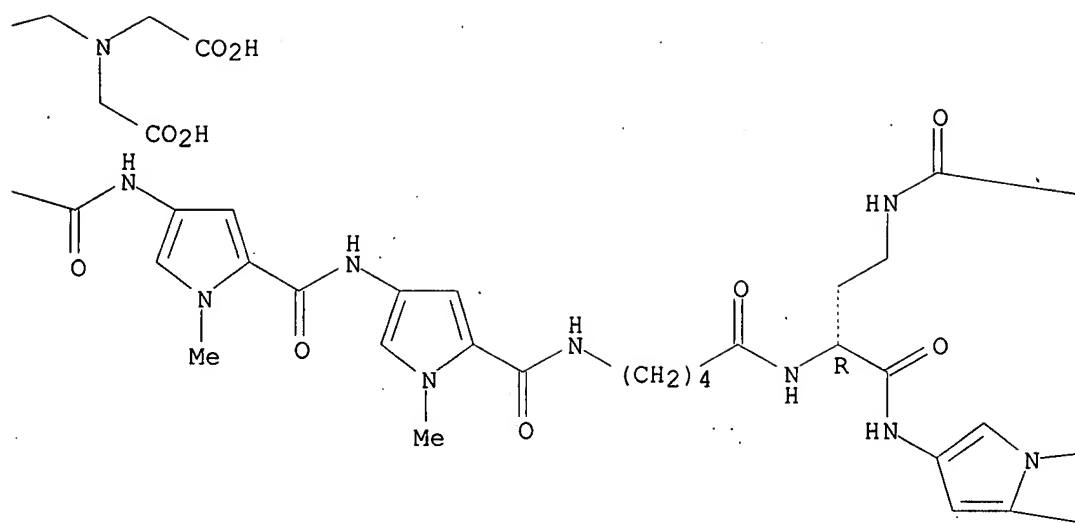


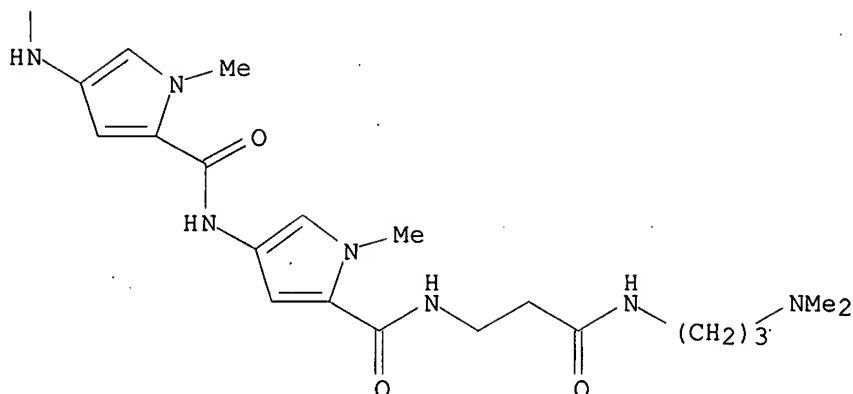
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Absolute stereochemistry.







REFERENCE COUNT: 309 THERE ARE 309 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:1141468 CAPLUS  
 DOCUMENT NUMBER: 143:417217  
 TITLE: Inhibition of major groove DNA binding proteins and gene expression by polyamides conjugated to phosphate backbone-binding moiety  
 INVENTOR(S): Baird, Eldon E.; Dervan, Peter B.  
 PATENT ASSIGNEE(S): California Institute of Technology, USA  
 SOURCE: U.S., 43 pp., Cont.-in-part of U.S. 6,635,417.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 13  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6958240	B1	20051025	US 1999-374704	19990812
US 6090947	A	20000718	US 1996-607078	19960226 <--
WO 9730975	A2	19970828	WO 1997-US3332	19970220 <--
WO 9730975	A3	19971016		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6143901	A	20001107	US 1997-837524	19970421 <--
US 6635417	B1	20031021	US 1997-853522	19970508
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			WO 1997-US3332	A2 19970220
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			US 1997-853522	A2 19970508
			US 1996-23309P	P 19960731
			US 1996-24374P	P 19960801
			US 1996-26713P	P 19960925
			US 1997-38384P	P 19970214

AB This invention provides improved polyamides comprising a pos. patch, e.g., the tripeptide Arg-Pro-Arg, for contacting the phosphate backbone or major groove of a DNA mol. As such, the improved polyamides are capable of

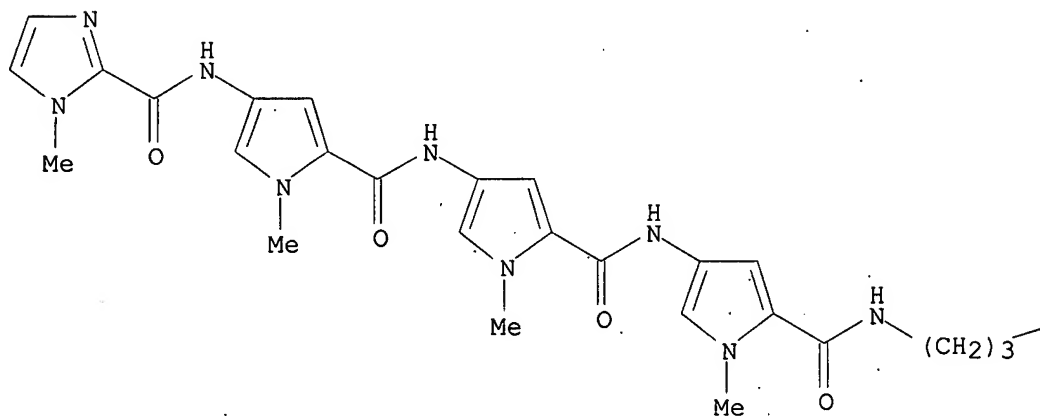
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	208053-49-0	208053-50-3	

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(inhibition of major groove DNA binding proteins and gene expression by polyamides conjugated to phosphate backbone-binding moiety)

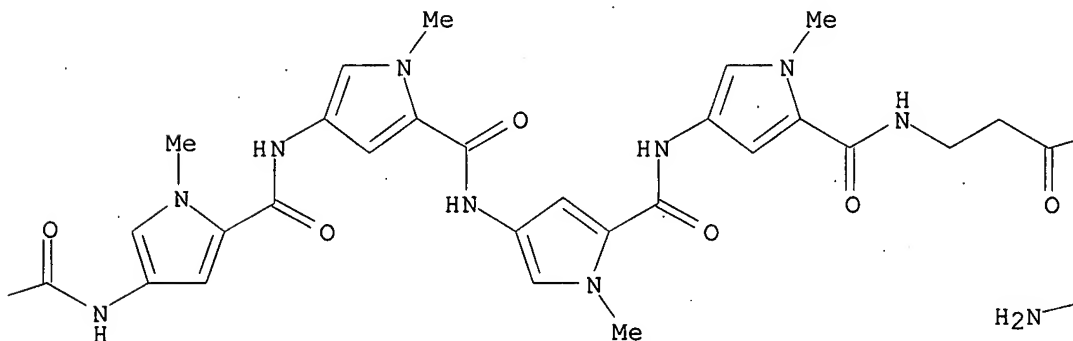
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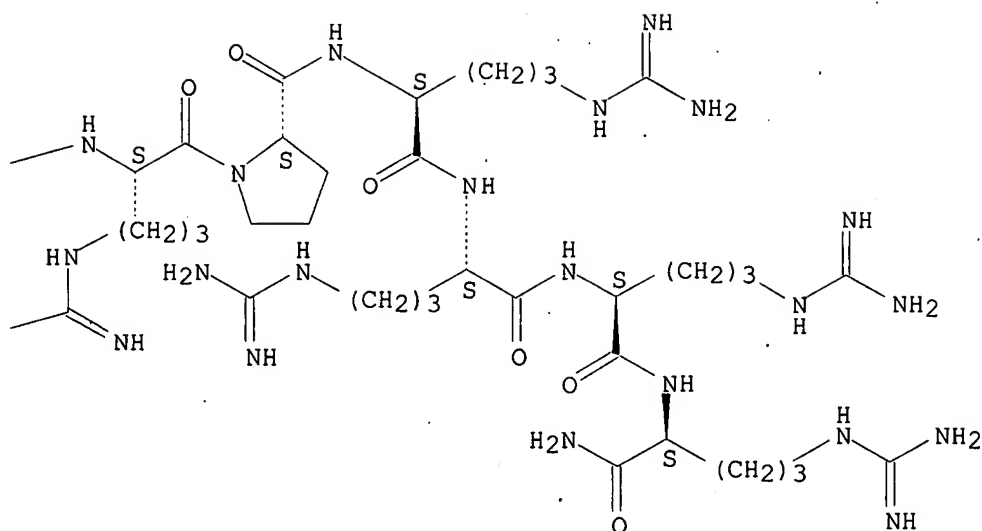
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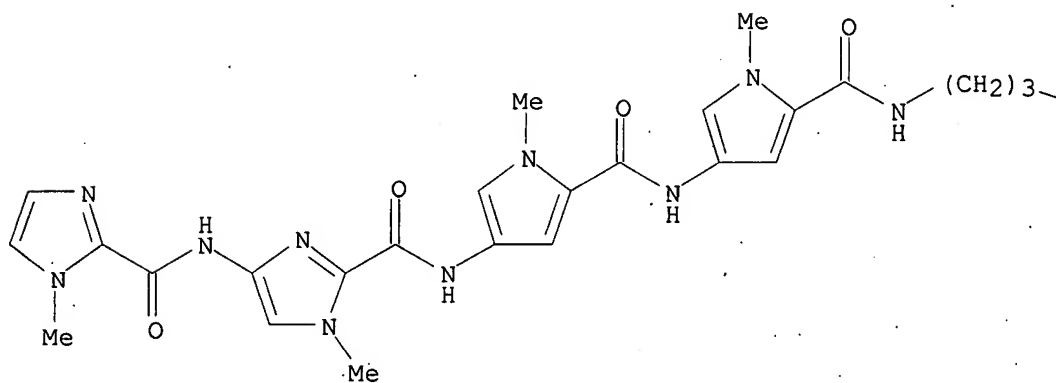


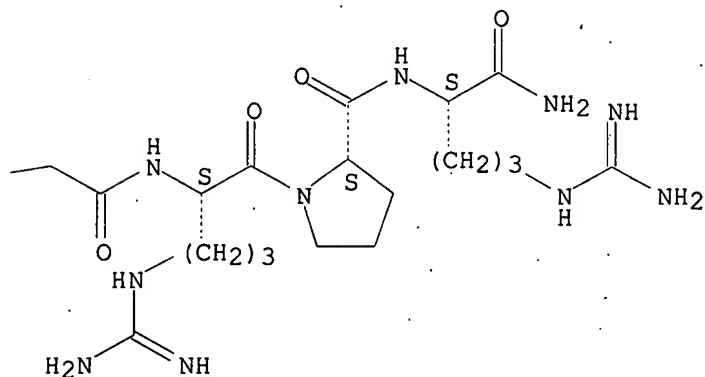
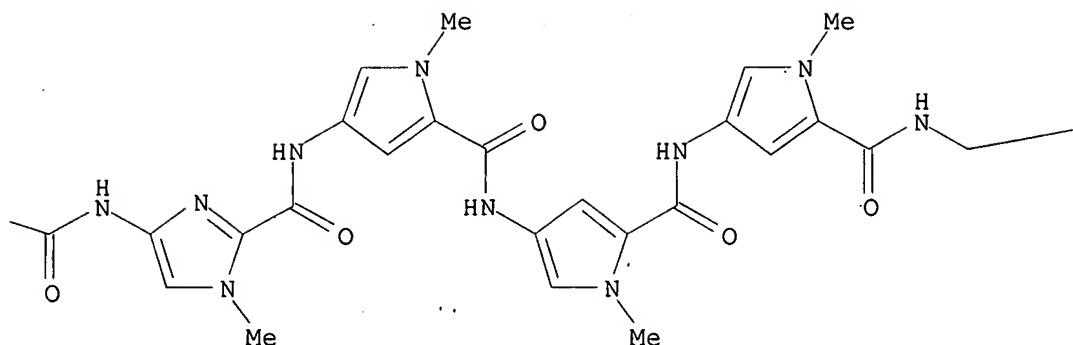


RN 208053-41-2 CAPLUS

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Absolute stereochemistry.





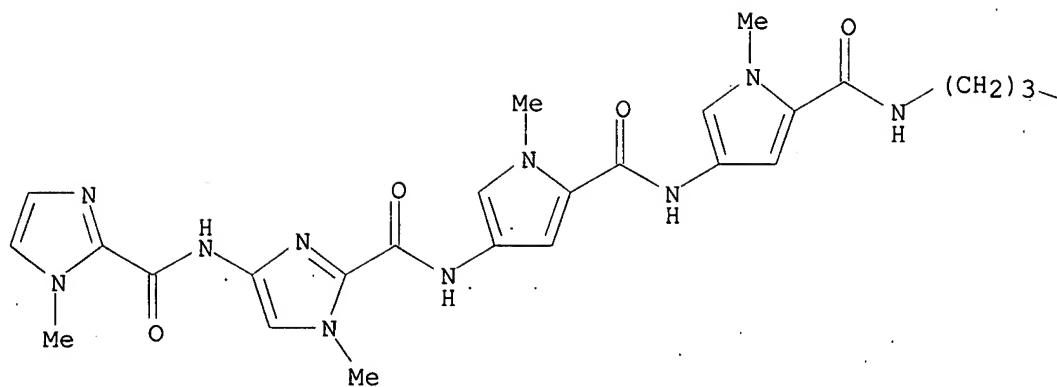
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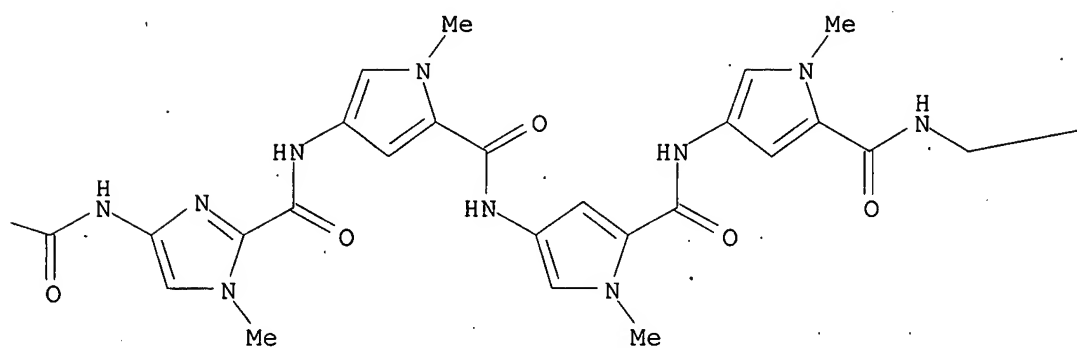
Absolute stereochemistry.

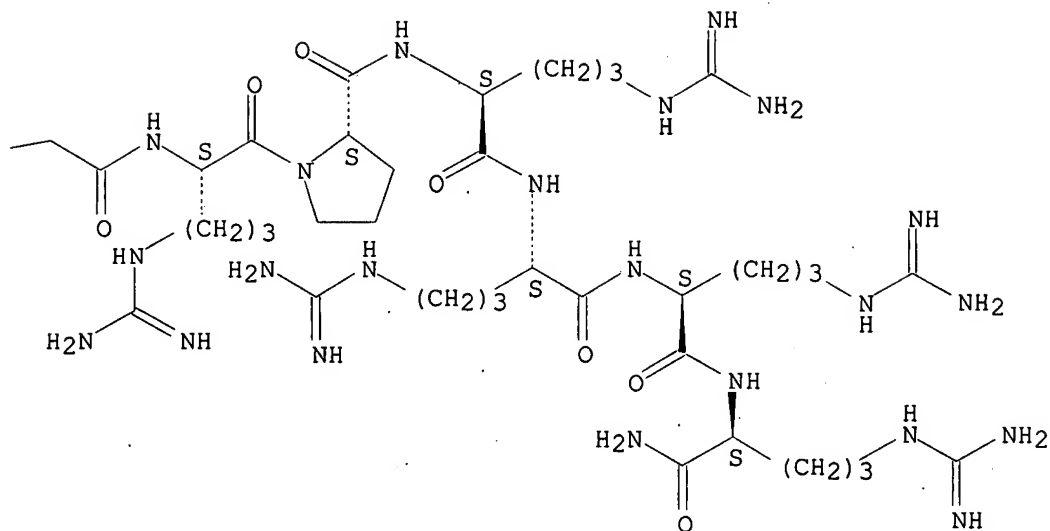


PAGE 1-A



PAGE 1-B

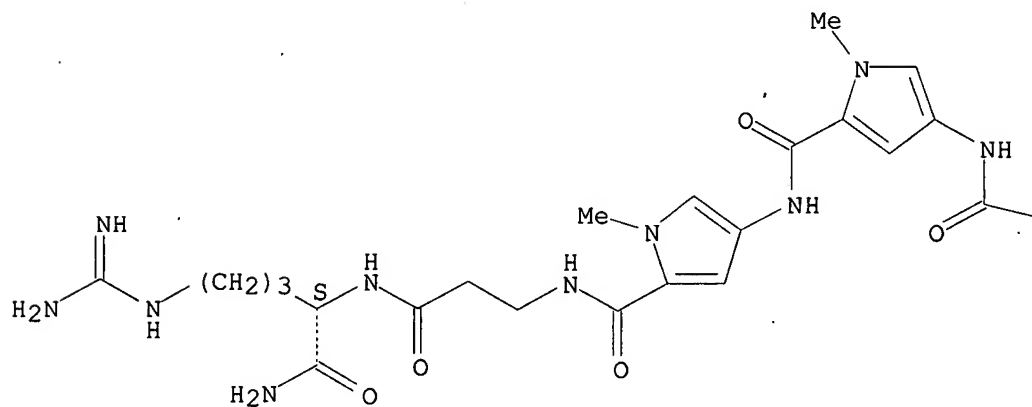


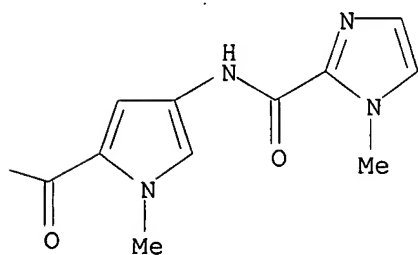
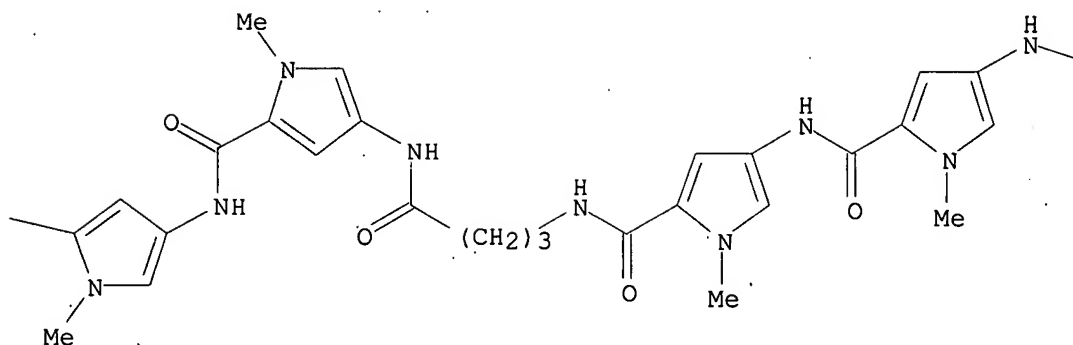


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Absolute stereochemistry.

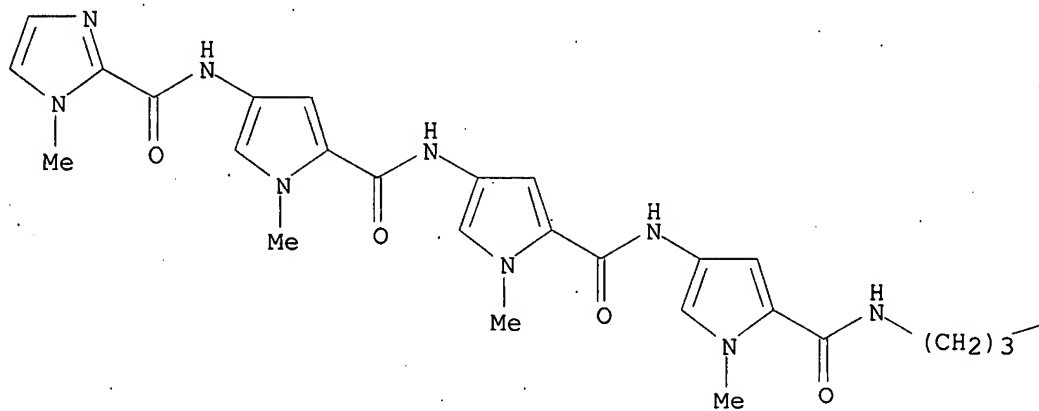




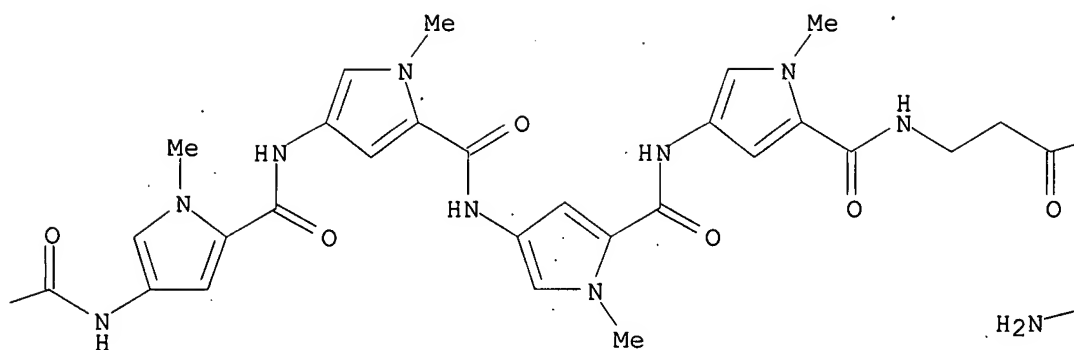
RN 208053-44-5 CAPLUS

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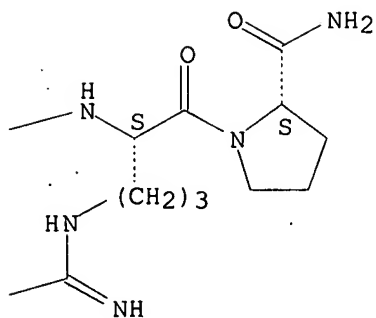
Absolute stereochemistry.



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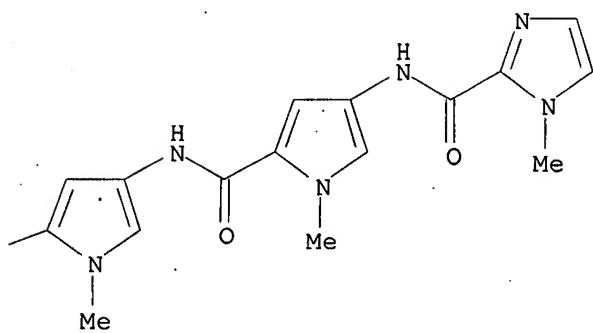
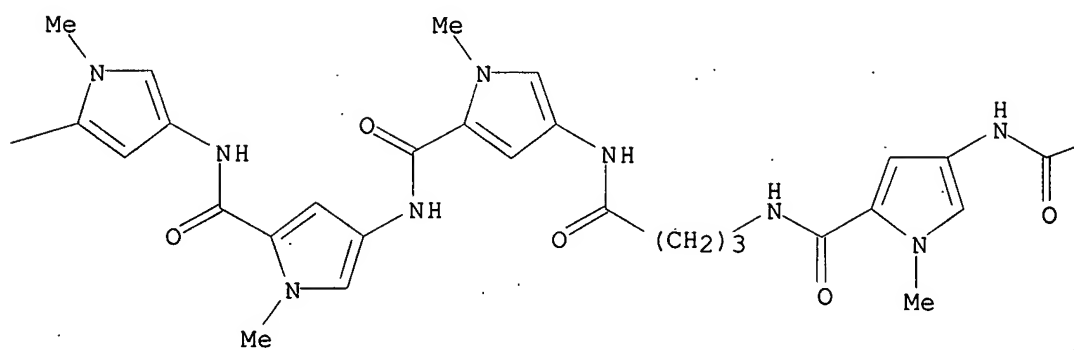
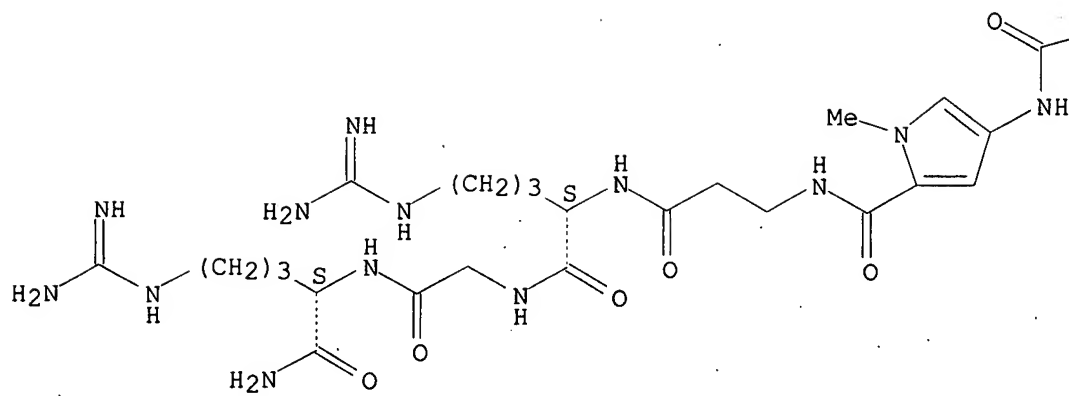
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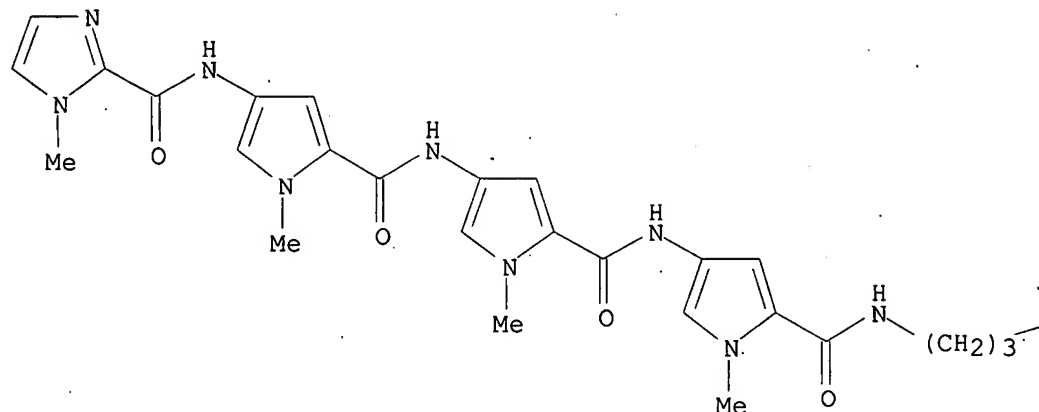
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Absolute stereochemistry.

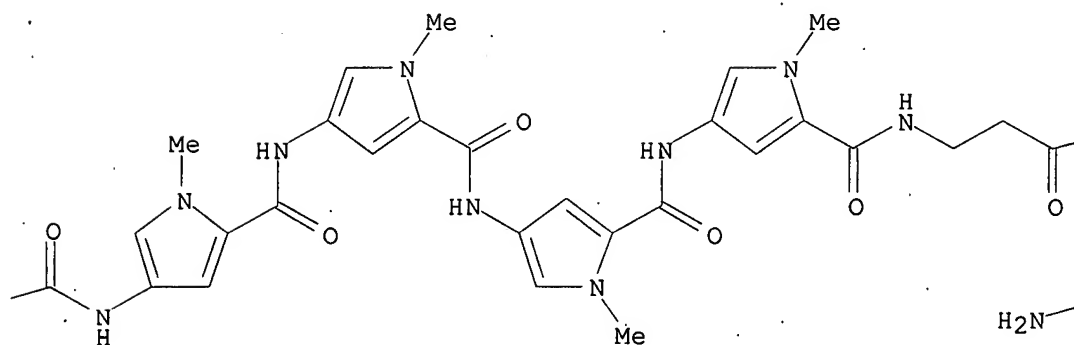


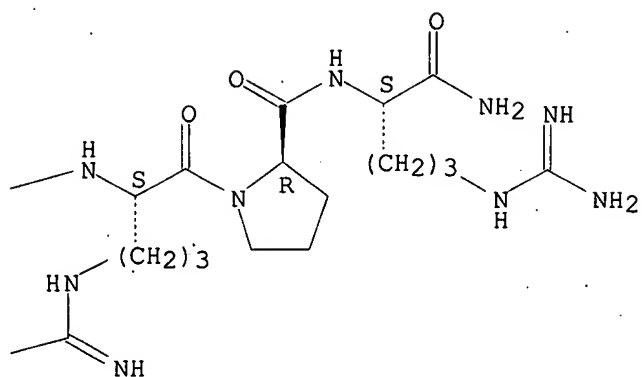
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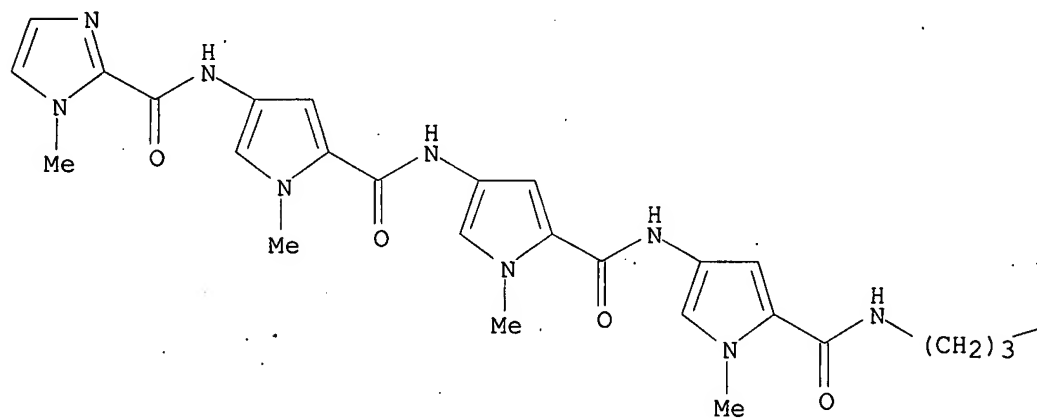


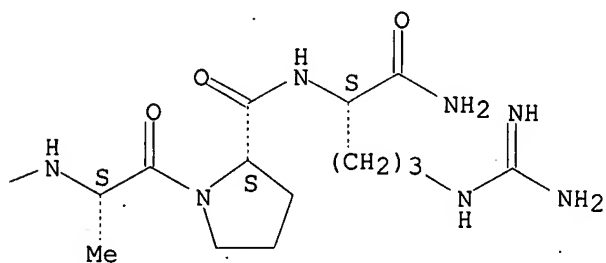
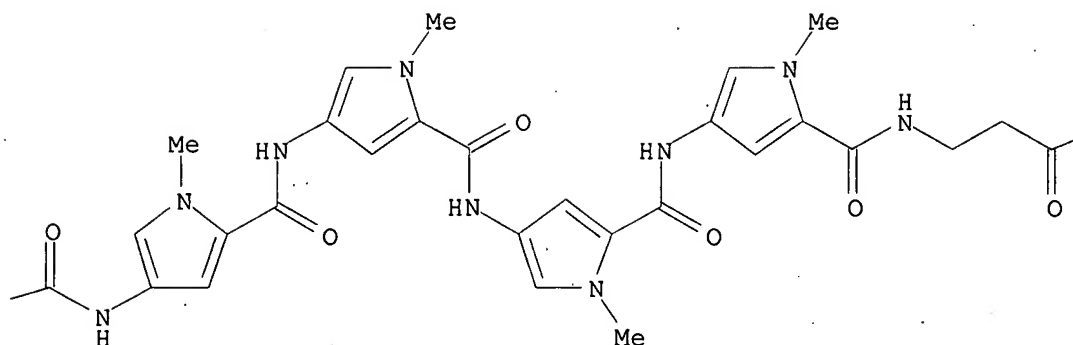


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Absolute stereochemistry.

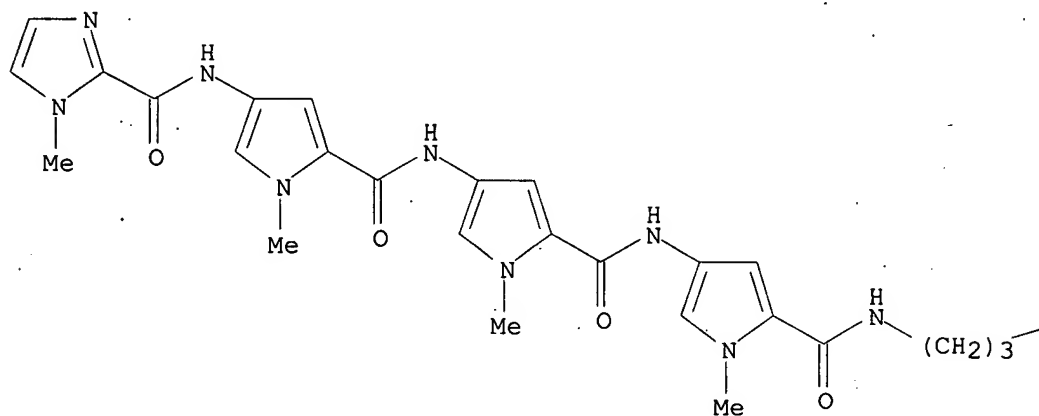




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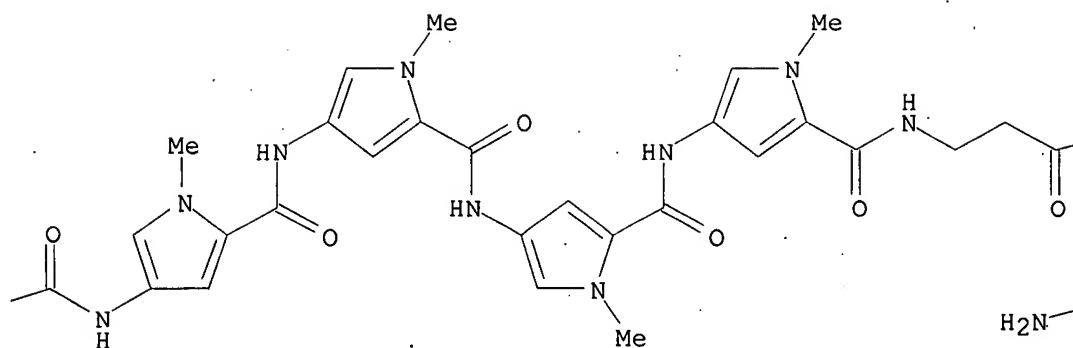
Absolute stereochemistry.



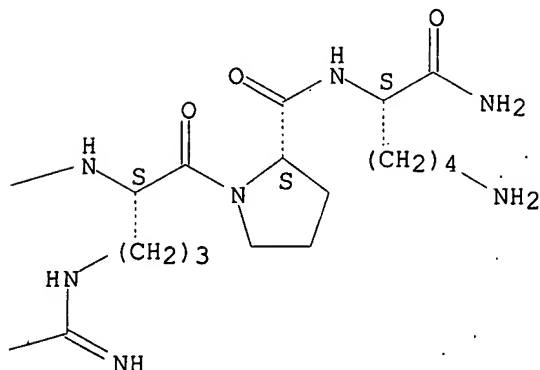




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PAGE 1-C

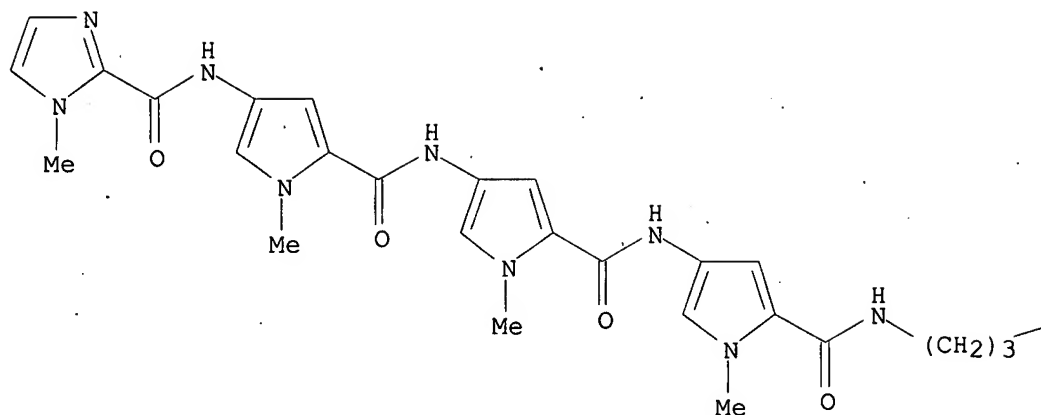


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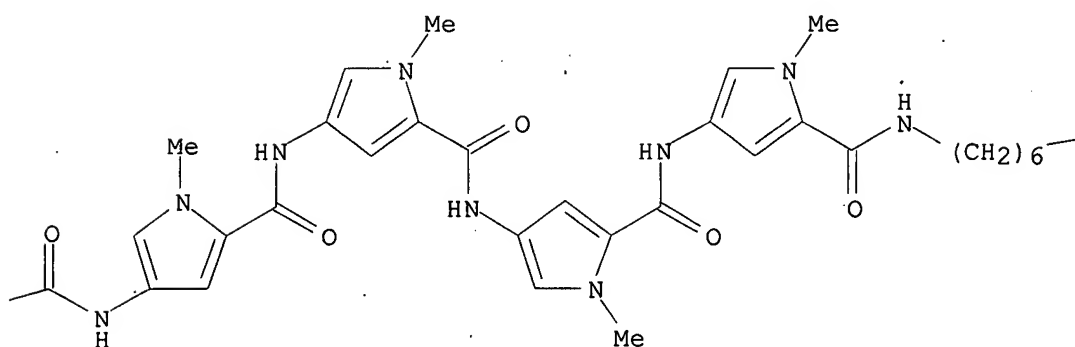
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Absolute stereochemistry.

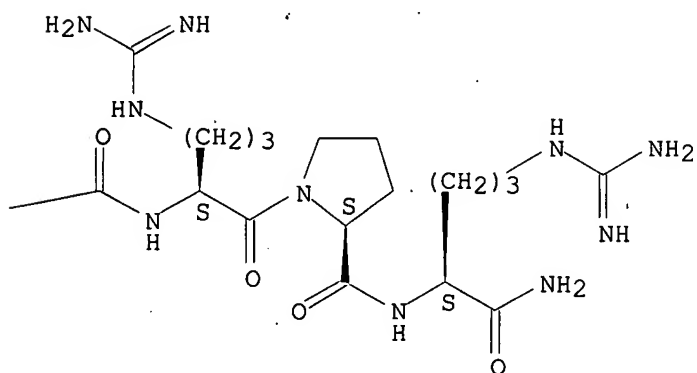
PAGE 1-A



PAGE 1-B



PAGE 1-C



IT 207978-26-5P  
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP

(Preparation); USES (Uses)

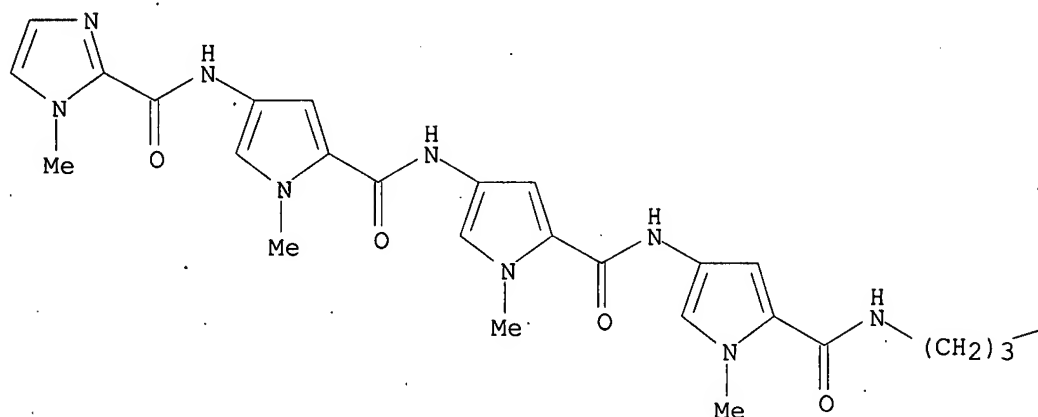
(inhibition of major groove DNA binding proteins and gene expression by polyamides conjugated to phosphate backbone-binding moiety)

RN 207978-26-5 CAPLUS

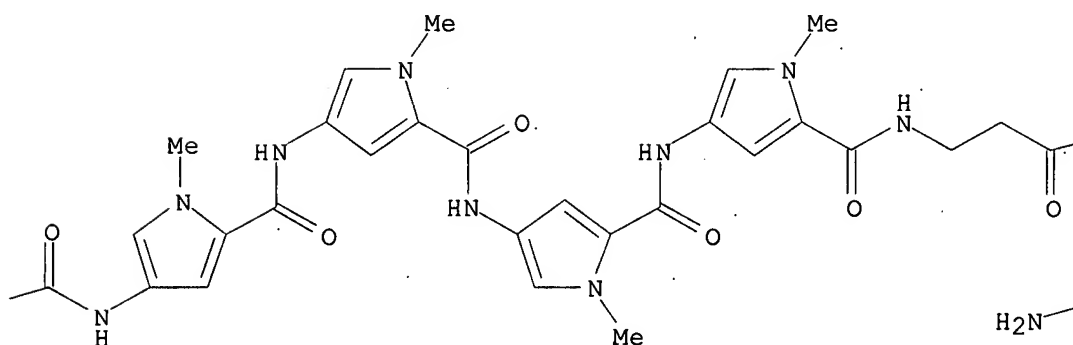
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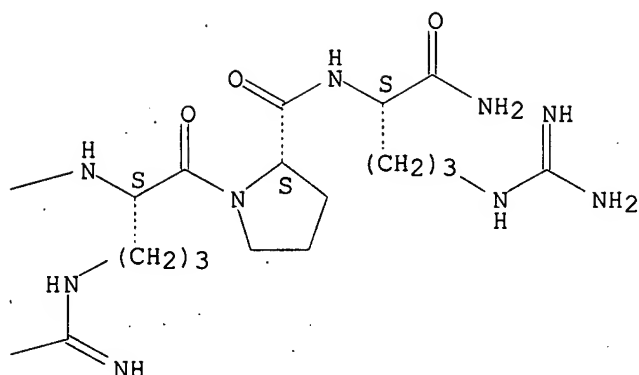
Absolute stereochemistry.

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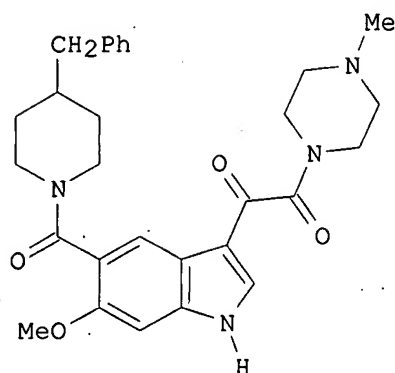
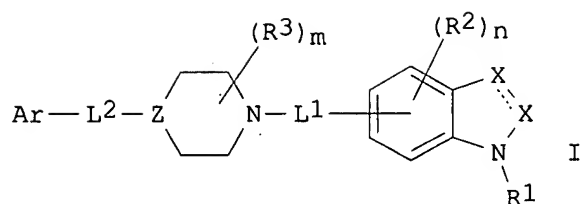


REFERENCE COUNT: 110 THERE ARE 110 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:232421 CAPLUS  
 DOCUMENT NUMBER: 142:316692  
 TITLE: Preparation of indolylcarboxamide derivatives as inhibitors of p38 kinase  
 INVENTOR(S): Mavunkel, Babu J.; Chakravarty, Sarvajit; Perumattam, John J.; Dugar, Sundeep; Lu, Qing; Liang, Xi  
 PATENT ASSIGNEE(S): Scios, Inc., USA  
 SOURCE: U.S., 65 pp., Cont.-in-part of U.S. 6,589,954.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6867209	B1	20050315	US 2000-575060	20000519
US 6130235	A	20001010	US 1998-128137	19980803 <--
US 6340685	B1	20020122	US 1999-275176	19990324
US 6589954	B1	20030708	US 1999-316761	19990521
US 2003158417	A1	20030821	US 2002-146703	20020514
US 7189726	B2	20070313		
US 2003144520	A1	20030731	US 2002-157048	20020528
US 6864260	B2	20050308		
US 2003162970	A1	20030828	US 2002-156996	20020528
US 2003195355	A1	20031016	US 2002-156997	20020528
PRIORITY APPLN. INFO.:			US 1998-86531P	P 19980522
			US 1998-128137	A2 19980803
			US 1999-275176	A2 19990324
			US 1999-316761	A2 19990521
			US 1999-154594P	P 19990917
			US 2000-202608P	P 20000509
			US 2000-575060	A1 20000519

OTHER SOURCE(S): CASREACT 142:316692; MARPAT 142:316692  
 GI



AB Title compds. I [X independently = CA, CR4A, CR5, CR52, NR6, or N; L1 = CO, SO2, or alkylene; L2 = (un)substituted-alkylene or -alkenylene; Ar = (un)substituted aryl group with substituents consisting of alkyl, alkenyl, halo, CN, etc.; Z = N or CR7 wherein R7 = H or non-interfering substituent; R1 = H, alkyl, alkenyl, alkynyl, aryl, arylalkyl, etc.; R2 independently = halo, alkyl, OH, alkoxy, etc.; R3 independently = CN, CF3, NO2, alkyl, aryl, acyl, etc.; R4 = H, halo, alkyl or alkenyl; R5 independently = H, halo, alkyl, OH, etc.; R6 = H, alkyl, alkenyl, aryl, acyl, aroyl, etc.; A = -WiCOXjY wherein Y is COR8 wherein R8 = H, (un)substituted-alkyl, -alkenyl, -alkynyl, etc.; W and X = (un)substituted-alkylene, -alkenylene, -alkynylene; Y = tetrazole, 1,2,3-triazole, 1,2,4-triazole, or imidazole and each of i and j independently = 0 or 1; m = 0-4; n = 0-3], and their pharmaceutically acceptable salts are prepared and disclosed as useful for treatment of rheumatoid arthritis. Thus, e.g., II, was prepared by carbonylation of 6-methoxy-(4-benzylpiperidinyl)-indole-5-carboxamide with oxalyl chloride and subsequent amination using 4-methylpiperazine. ELISA assays for evaluation of inhibition of p38 kinase by I revealed that all compds. of the invention possessed IC50 values in the range of 0.1-1.5  $\mu$ M. I as inhibitors of p38 kinase should prove useful in the treatment of rheumatoid arthritis.

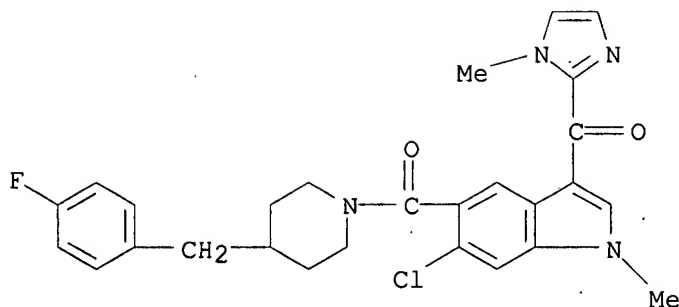
IT 309914-41-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP. (Preparation); USES (Uses)

(preparation of indolylcarboxamide derivs. as p38 kinase inhibitors)

RN 309914-41-8 CAPLUS

CN Piperidine, 1-[[6-chloro-1-methyl-3-[(1-methyl-1H-imidazol-2-yl)carbonyl]-1H-indol-5-yl]carbonyl]-4-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:589247 CAPLUS

DOCUMENT NUMBER: 141:140463

TITLE: Preparation of heterocyclic compounds as selective phosphodiesterase V inhibitors

INVENTOR(S): Yamada, Koichiro; Matsuki, Kenji; Omori, Kenji; Kikkawa, Kohei

PATENT ASSIGNEE(S): Japan

SOURCE: U.S. Pat. Appl. Publ., 116 pp., Cont.-in-part of U.S. Ser. No. 258,545.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

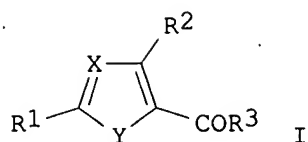
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004142930	A1	20040722	US 2003-699804	20031104
JP 2002012587	A	20020115	JP 2000-277652	20000913
JP 3637961	B2	20050413		
WO 2001083460	A1	20011108	WO 2001-JP2034	20010315 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2003229089	A1	20031211	US 2002-258545	20021025
US 7220736	B2	20070522		

PRIORITY APPLN. INFO.:

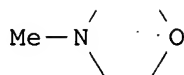
JP 2000-130371	A	20000428
JP 2000-277652	A	20000913
WO 2001-JP2034	W	20010315
US 2002-258545	A2	20021025
JP 1999-261852	A	19990916

OTHER SOURCE(S): MARPAT 141:140463

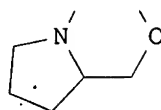
GI



Q=



Q1=



AB The title compds. (I) [X = CH, N; Y = NH, NR, S, O, CH:N, N:CH, N:N, CH:CHC(:R5)N, CH:C(R5), N:C(R7)]; R1 = each (un)substituted lower alkoxy, amino, heterocyclyl containing N atom(s), HO, or heterocyclyloxy containing N atom(s), cyano; R2 = lower alkylamino or lower alkoxy each optionally substituted by an (un)substituted aryl, lower alkoxy group substituted by an aromatic heterocyclic ring containing N atom(s), lower alkylamino group substituted by a (un)substituted heterocyclic ring, (un)substituted arylamino; R3 = each (un)substituted aryl, heterocyclyl containing N atom(s), lower alkyl, lower alkoxy, lower cycloalkoxy, heterocyclyloxy containing N atom(s), or NH2; R4-R7 = each (un)substituted aryl, heterocyclyl containing N atom(s), lower alkoxy, or NH2; R4, R5, R6 or R7 may combine with R3 to form a lactone ring Q or Q1; when X = N, Y = CH:N, or N:CH, R2 = an amino group monosubstituted by an (un)substituted arylmethyl, and R3 = (un)substituted lower alkyl, amino monosubstituted by an (un)substituted heterocyclyl-lower alkyl containing N atom(s) in the ring, heterocyclylamino containing N atom(s) in the ring, or (un)substituted lower cycloalkylamino, R1 = each (un)substituted lower alkoxy, amino, heterocyclyloxy containing N atom(s) in the ring, or cyano group] or pharmacol. acceptable salts thereof are prepared These compds. have excellent selective PDE V inhibitory activity and therefore, are useful as therapeutic or prophylactic drugs for treating various diseases due to functional disorders on cGMP-signaling, such as erectile dysfunction, pulmonary hypertension, and diabetic gastroparesis. Thus, 2-(hydroxymethyl)pyridine was treated with NaH in THF and etherified with 2-chloro-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4-methoxybenzylamino)pyrimidine to give 2-(2-pyridylmethoxy)-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4-methoxybenzylamino)pyrimidine.

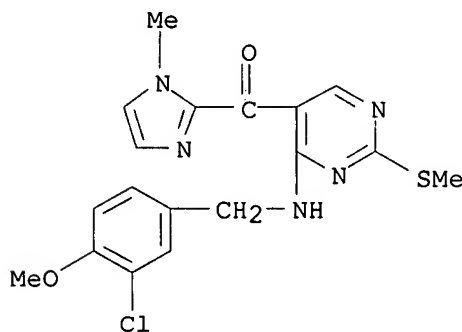
IT 372113-70-7P 372113-71-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic compds. as selective phosphodiesterase V inhibitors for treating various diseases due to functional disorders on cGMP-signaling)

RN 372113-70-7 CAPLUS

CN Methanone, [4-[[3-chloro-4-methoxyphenyl)methyl]amino]-2-(methylthio)-5-pyrimidinyl(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)



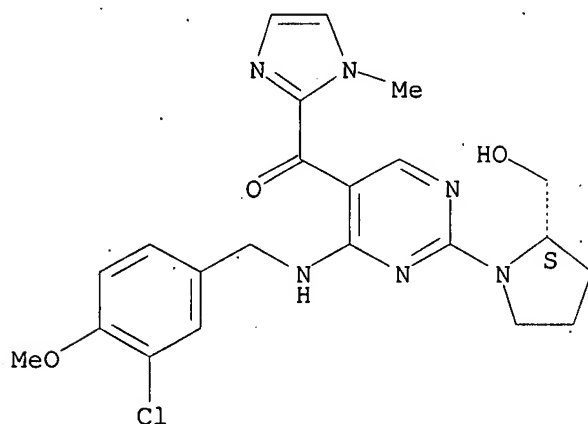
RN 372113-71-8 CAPLUS

CN Methanone, [4-[[3-chloro-4-methoxyphenyl)methyl]amino]-2-[(2S)-2-



(hydroxymethyl)-1-pyrrolidinyl]-5-pyrimidinyl] (1-methyl-1H-imidazol-2-yl)-  
(9CI) (CA INDEX NAME).

Absolute stereochemistry.



L5 ANSWER 5 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:485162 CAPLUS

DOCUMENT NUMBER: 141:38534

TITLE: Preparation of aromatic sulfone hydroxamic acid metalloprotease inhibitors

INVENTOR(S): Barta, Thomas E.; Becker, Daniel P.; Bedell, Louis J.; Boehm, Terri L.; Carroll, Jeffrey N.; Decrescenzo, Gary A.; Fobian, Yvette M.; Freskos, John N.; Getman, Daniel P.; McDonald, Joseph J.; Li, Madeleine H.; Hockerman, Susan L.; Howard, Susan C.; Kolodziej, Steve A.; Mischke, Deborah A.; Rico, Joseph G.; Stehle, Nathan W.; Tollefson, Michael B.; Vernier, William F.; Villamil, Clara I.

PATENT ASSIGNEE(S): Pharmacia Corporation, USA

SOURCE: U.S., 403 pp., Cont.-in-part of U.S. Ser. No. 311,837. CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

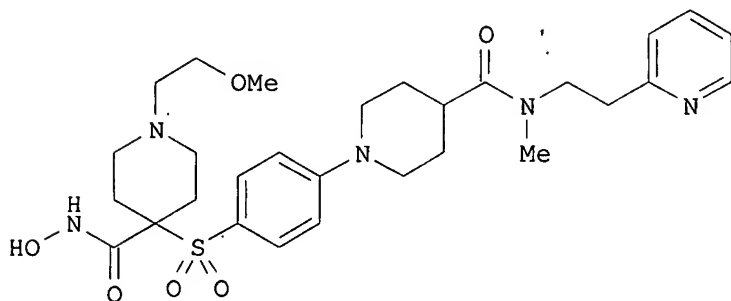
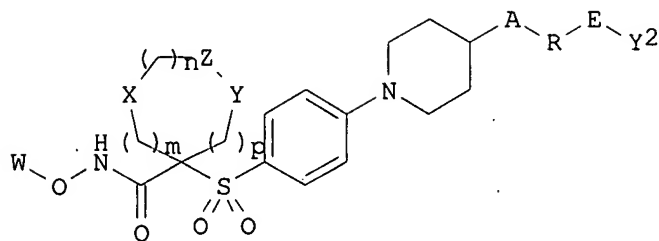
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6750228	B1	20040615	US 2000-570731	20000512
US 2001014688	A1	20010816	US 1998-191129	19981113 <--
US 2001039287	A1	20011108	US 1999-256948	19990224 <--
CA 2372934	A1	20001123	CA 2000-2372934	20000515 <--
WO 2000069821	A1	20001123	WO 2000-US6719	20000515 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1183239	A1	20020306	EP 2000-930088	20000515
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
HU 200201680	A2	20020928	HU 2002-1680	20000515
BR 2000010562	A	20030610	BR 2000-10562	20000515
JP 2003520196	T	20030702	JP 2000-618238	20000515

AU 766792	B2	20031023	AU 2000-47970	20000515
NZ 515217	A	20040430	NZ 2000-515217	20000515
US 2002177588	A1	20021128	US 2001-954451	20010917
US 6750233	B2	20040615		
ZA 2001009006	A	20021202	ZA 2001-9006	20011031
NO 2001005543	A	20020110	NO 2001-5543	20011113
US 2003073718	A1	20030417	US 2001-989943	20011121
US 6683093	B2	20040127		
US 2004209914	A1	20041021	US 2003-730403	20031208
US 2004235818	A1	20041125	US 2003-747796	20031229

PRIORITY APPLN. INFO.:

US 1997-66007P	P	19971114
US 1998-95347P	P	19980804
US 1998-101080P	P	19980918
US 1999-256948	B2	19990224
US 1999-311837	A2	19990514
US 1998-95501P	P	19980806
US 1998-186410	B2	19981105
US 1998-191129	B2	19981113
US 2000-570731	A	20000512
WO 2000-US6719	W	20000515
US 2001-989943	A3	20011121

OTHER SOURCE(S): MARPAT 141:38534  
GI



AB A treatment process is disclosed that comprises administering an effective amount of an aromatic sulfone hydroxamic acid I [W = H, cation, certain acyl or thioacyl groups; m, n, p = 0-2; (m+n+p) = 1 to 4; Z = (un)substituted NH; X, Y = (un)substituted CH<sub>2</sub>; A = bond, O, S, (un)substituted NH, COO, OCO, CH:CH, C.tplbond.C, N:N, NHNH, NHCOO, (un)substituted CONH, NHCO, etc.; R = alkylene, arylene, heteroarylene, etc., with provisos; E = bond, CONH, NHCO, CO, SO<sub>2</sub>, NHSO<sub>2</sub>, SO<sub>2</sub>NH, S, etc.; Y<sub>2</sub> = absent, H, alkyl, alkoxy, aryl, aryloxy, heteroaryl, etc.] to a host having a condition associated with pathol. matrix metalloprotease (MMP) activity. I exhibit excellent inhibitory activity of one or more MMP enzymes, such as MMP-2, MMP-9 and MMP-13, while exhibiting substantially less inhibition of (at least) MMP-1 (biol. data given). Also disclosed are metalloprotease inhibitor compds. having such selective activities, processes for manufacture of such compds., and pharmaceutical compds. using such inhibitors. The compds. are

potentially useful against a wide variety of conditions, notably as antiosteoarthritic, antiangiogenesis, and antitumor agents. Over 900 example compds. are listed, most with supporting phys. data, and many with synthetic details. E.g., a multi-step synthesis of the compound II.2HCl was given.

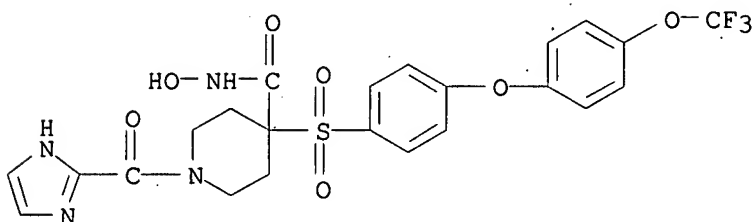
IT 308825-58-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aromatic sulfone hydroxamic acids as metalloprotease inhibitors)

RN 308825-58-3 CAPLUS

CN 4-Piperidinecarboxamide, N-hydroxy-1-(1H-imidazol-2-ylcarbonyl)-4-[[4-[4-(trifluoromethoxy)phenoxy]phenyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

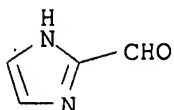
IT 10111-08-7, 2-Imidazolecarboxaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of aromatic sulfone hydroxamic acids as metalloprotease inhibitors)

RN 10111-08-7 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde (CA INDEX NAME)



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:20322 CAPLUS

DOCUMENT NUMBER: 140:87658

TITLE: Peptidomimetic modulators of cell adhesion

INVENTOR(S): Gour, Barbara J.; Blaschuk, Orest W.; Ali, Anmar; Ni, Feng; Chen, Zhigang; Michaud, Stephanie Denise; Wang, Shaomeng; Hu, Zengjian

PATENT ASSIGNEE(S): Can.

SOURCE: U.S. Pat. Appl. Publ., 280 pp., Cont.-in-part of U.S. Ser. No. 6,982.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2004006011	A1	20040108	US 2003-425557	20030428
US 6031072	A	20000229	US 1997-893534	19970711 <--
US 6326352	B1	20011204	US 2000-507102	20000217 <--
US 2002168761	A1	20021114	US 2001-769145	20010124
US 2002151475	A1	20021017	US 2001-6982	20011204
US 6914044	B2	20050705		

PRIORITY APPLN. INFO.:

US 1996-21612P	P	19960712
US 1997-893534	A1	19970711
US 2000-491078	B2	20000124
US 2000-507102	A1	20000217
US 2001-769145	B2	20010124
US 2001-6982	A2	20011204

OTHER SOURCE(S): MARPAT 140:87658

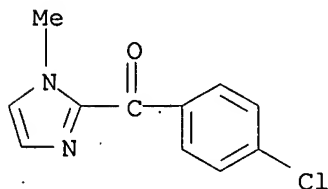
AB Peptidomimetics of cyclic peptides, and compns. comprising such peptidomimetics are provided. The peptidomimetics have a three-dimensional structure that is substantially similar to a three-dimensional structure of a cyclic peptide that comprises a cadherin cell adhesion recognition sequence HAV. Methods for using such peptidomimetics for modulating cadherin-mediated cell adhesion in a variety of contexts are also provided.

IT 30148-18-6, Methanone, (4-chlorophenyl)(1-methyl-1H-imidazol-2-yl)-  
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);  
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES  
(Uses)

(peptidomimetic modulators of cadherin-mediated cell adhesion for  
therapeutic use in relation to three-dimensional structure)

RN 30148-18-6 CAPLUS

CN Methanone, (4-chlorophenyl)(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX  
NAME)



L5 ANSWER 7 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:633320 CAPLUS

DOCUMENT NUMBER: 139:180075

TITLE: Preparation of pyrrolopyrimidines as tyrosine kinase inhibitors

INVENTOR(S): Hirst, Gavin C.; Calderwood, David; Munschauer, Rainer; Arnold, Lee D.; Johnston, David N.; Rafferty, Paul

PATENT ASSIGNEE(S): Abbott GmbH & Co. KG, USA

SOURCE: U.S. Pat. Appl. Publ., 166 pp., Cont.-in-part of Appl. No. PCT/US99/21560.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

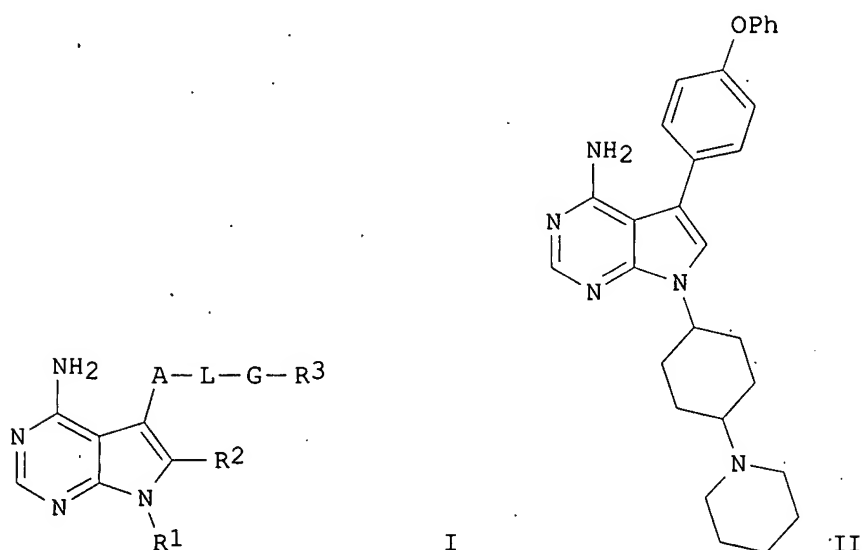
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003153752	A1	20030814	US 2000-537167	20000329
US 6713474	B2	20040330		
WO 2000017203	A1	20000330	WO 1999-US21560	19990917 <--

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,  
 MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
 SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

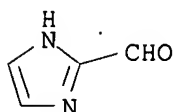
ZA 2001002204 A 20020318 ZA 2001-2204 20010316  
 PRIORITY APPLN. INFO.: US 1998-100832P P 19980918  
 US 1998-100833P P 19980918  
 US 1998-100834P P 19980918  
 US 1998-100946P P 19980918  
 WO 1999-US21560 A2 19990917  
 OTHER SOURCE(S): MARPAT 139:180075  
 GI



AB The title compds. I [A = (un)substituted 6-membered aromatic ring, 5-6 membered heteroarom. ring; L = O, S, SO, SO<sub>2</sub>, etc.; G = a direct bond, (CH<sub>2</sub>)<sub>j</sub> (wherein j = 1-6), alkenylene, cycloalkylene, oxaalkylene; R<sub>1</sub> = alkyl, cycloalkyl, bicycloalkyl, etc.; R<sub>2</sub> = H, alkyl, cycloalkyl, halo, etc.; R<sub>3</sub> = alkyl, alkenyl, cycloalkyl, etc.] and physiol. acceptable salts and metabolites thereof, are inhibitors of serine/threonine and tyrosine kinase activity. Several of the kinases, whose activity is inhibited by compds. I, are involved in immunol., hyperproliferative, or angiogenic processes. Thus, the compds. I can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor. These compds. can be used to treat cancer and hyperproliferative disorders, rheumatoid arthritis, disorders of the immune system, transplant rejections and inflammatory disorders. All exemplified compds. I significantly inhibited either FGFR, PDGFR, KDR, Tie-2, Lck, Fyn, Blk, Lyn, or Src at ≤50 μM, and some significantly inhibited cdc2 at ≤50 μM. 546 Example preps. are included. For example, addition of piperidine to 4-[4-amino-5-(4-phenoxyphenyl)-7H-pyrrolo[2,3-d]pyrimidin-7-yl]cyclohexanone in DCE and AcOH, followed by treatment with Na[AcO]3BH, workup and chromatog., gave cis- and trans-II.

IT 10111-08-7, 1H-Imidazole-2-carboxaldehyde  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant; preparation of pyrrolopyrimidinamines as protein kinase inhibitors)

RN 10111-08-7 CAPLUS



L5 ANSWER 8 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:408777 CAPLUS

DOCUMENT NUMBER: 139:7171

TITLE: Preparation of vitronectin receptor antagonist pharmaceuticals for use in the diagnosis and treatment of cancer

INVENTOR(S): Cheesman, Edward H.; Barrett, John A.; Carpenter, Alan P., Jr.; Rajopadhye, Milind; Sworin, Michael

PATENT ASSIGNEE(S): Bristol-Myers Squibb Pharma Company, USA

SOURCE: U.S., 86 pp., Cont.-in-part of U.S. Ser. No. 466,582. CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6569402	B1	20030527	US 2000-599365	20000621
US 6322770	B1	20011127	US 1999-281207	19990330 <--
US 2002015680	A1	20020207	US 1999-281209	19990330
US 6524553	B2	20030225		
US 6548663	B1	20030415	US 1999-281050	19990330
US 6558649	B1	20030506	US 1999-466582	19991217
US 2003124120	A1	20030703	US 2002-269252	20021011
US 2003143235	A1	20030731	US 2002-306244	20021126
US 6818201	B2	20041116		
US 2003149262	A1	20030807	US 2002-306054	20021126
US 2004014964	A1	20040122	US 2003-348268	20030121
US 7090828	B2	20060815		

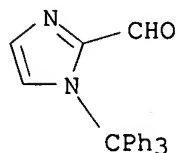
PRIORITY APPLN. INFO.:

US 1998-112831P	P	19981218
US 1999-466582	A2	19991217
US 1998-80150P	P	19980331
US 1998-112715P	P	19981218
US 1998-112732P	P	19981218
US 1998-112829P	P	19981218
US 1999-281050	A3	19990330
US 1999-281209	A3	19990330
US 2000-599365	A3	20000621

OTHER SOURCE(S): MARPAT 139:7171

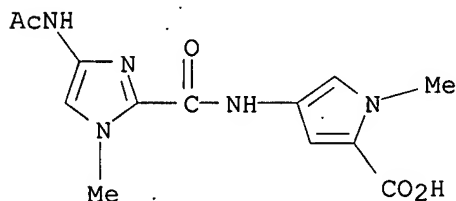
AB The invention describes novel compds. (Q)d-Ln-Ch [Q is a residue having a 2-(carboxymethyl)-tetrahydro-1,4-benzodiazepine-type moiety; Ln is a linking group; Ch is a metal-bonding unit; d = 1-10] which are useful for the diagnosis and treatment of cancer and the imaging of tumors in a patient. The pharmaceuticals are comprised of a targeting moiety that binds to a receptor that is upregulated during angiogenesis, an optional linking group, and a therapeutically effective radioisotope or diagnostically effective imageable moiety. The imageable moiety is a gamma ray or positron emitting radioisotope, a magnetic resonance imaging contrast agent, an X-ray contrast agent, or an ultrasound contrast agent. Thus, (S,S,S)-4-[N-[3-[3,6-diaza-10-[N-(benzimidazol-2-ylmethyl)-N-methylcarbamoyl]-5-(carboxymethyl)-4-oxobicyclo[5.4.0]undeca-1(7),8,10-trien-3-yl]propyl]carbamoyl]-4-[4-carboxy-2-[2-[1,4,7,10-tetraaza-4,7,10-tris(carboxymethyl)cyclodecyl]acetyl]amino]butanoylamino]butanoic acid (claimed compound) was prepared and used in the synthesis of <sup>177</sup>Lu, <sup>90</sup>Y and

111In complexes.  
 IT 67478-50-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of peptidyl vitronectin receptor antagonist pharmaceuticals for  
 diagnosis and treatment of cancer)  
 RN 67478-50-6 CAPLUS  
 CN 1H-Imidazole-2-carboxaldehyde, 1-(triphenylmethyl)- (CA INDEX NAME)

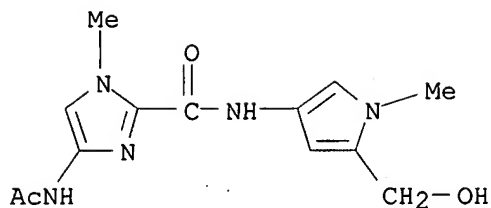


REFERENCE COUNT: 162 THERE ARE 162 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L5 ANSWER 9 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:341959 CAPLUS  
 DOCUMENT NUMBER: 139:345455  
 TITLE: Gene therapy of cancer by using novel alkylating  
 pyrrole-imidazole polyamide  
 AUTHOR(S): Sugiyama, Hiroshi  
 CORPORATE SOURCE: Dep. of Biomaterials, Tokyo Medical and Dental  
 University, Japan  
 SOURCE: Ikagaku Oyo Kenkyu Zaidan Kenkyu Hokoku (2001  
 ), Volume Date 2000, 19, 198-202  
 CODEN: IOKHEP; ISSN: 0914-5117  
 PUBLISHER: Ikagaku Oyo Kenkyu Zaidan  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese  
 AB Novel alkylating pyrrole-imidazole polyamide derivs. were design and  
 prepared for gene therapy of cancer. The antitumor activities of the  
 derivs. against Hela cells were tested.  
 IT 225667-23-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (gene therapy of cancer by using novel alkylating pyrrole-imidazole  
 polyamides)  
 RN 225667-23-2 CAPLUS  
 CN 1H-Pyrrole-2-carboxylic acid, 4-[[[4-(acetylamino)-1-methyl-1H-imidazol-2-  
 yl]carbonyl]amino]-1-methyl- (9CI) (CA INDEX NAME)

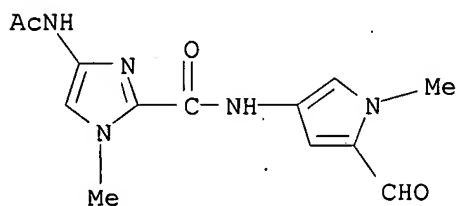


IT 263710-64-1P 263710-65-2P 263710-66-3P  
 263710-67-4P 263710-68-5P 339984-91-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (gene therapy of cancer by using novel alkylating pyrrole-imidazole  
 polyamides)  
 RN 263710-64-1 CAPLUS  
 CN 1H-Imidazole-2-carboxamide, 4-(acetylamino)-N-[5-(hydroxymethyl)-1-methyl-  
 1H-pyrrol-3-yl]-1-methyl- (9CI) (CA INDEX NAME)



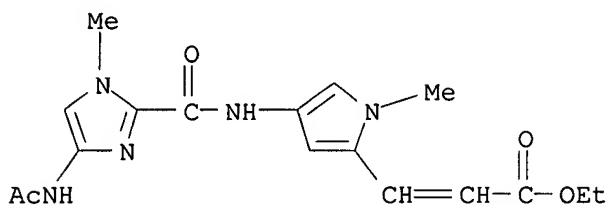
RN 263710-65-2 CAPLUS

CN 1H-Imidazole-2-carboxamide, 4-(acetylamino)-N-(5-formyl-1-methyl-1H-pyrrol-3-yl)-1-methyl- (9CI) (CA INDEX NAME).



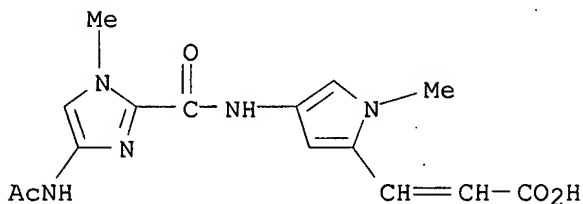
RN 263710-66-3 CAPLUS

CN 2-Propenoic acid, 3-[4-[[[4-(acetylamino)-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 263710-67-4 CAPLUS

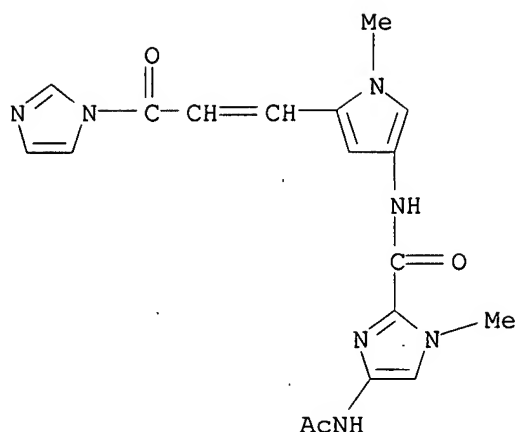
CN 2-Propenoic acid, 3-[4-[[[4-(acetylamino)-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



RN 263710-68-5 CAPLUS

CN 1H-Imidazole-2-carboxamide, 4-(acetylamino)-N-[5-[3-(1H-imidazol-1-yl)-3-oxo-1-propenyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl- (9CI) (CA INDEX NAME)

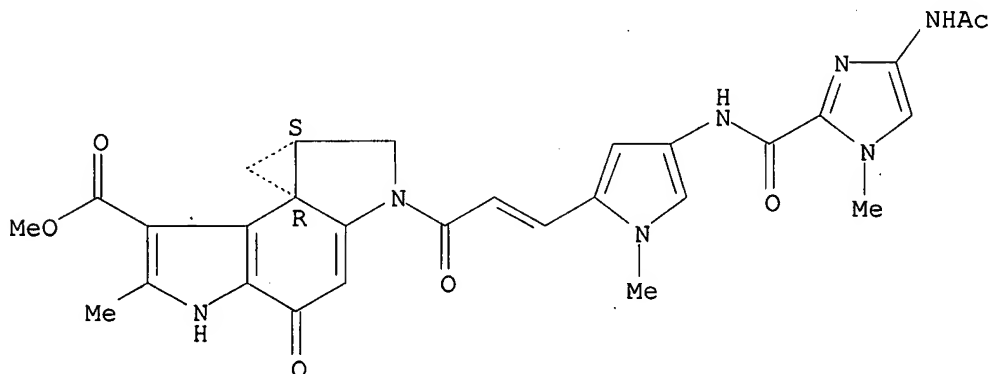




RN 339984-91-7 CAPLUS

CN Cyclopropan[c]pyrrolo[3,2-e]indole-7-carboxylic acid, 2-[3-[4-[[[4-(acetylamino)-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]-1-oxo-2-propenyl]-1,2,4,5,8,8a-hexahydro-6-methyl-4-oxo-, methyl ester, (7bR,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.



L5 ANSWER 10 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:296061 CAPLUS

DOCUMENT NUMBER: 138:297701

TITLE: Transmucosal administration of phosphodiesterase inhibitors for the treatment of erectile dysfunction  
INVENTOR(S): Doherty, Paul C., Jr.; Place, Virgil A.; Smith, William L.

PATENT ASSIGNEE(S): Vivus, Inc., USA

SOURCE: U.S., 13 pp., Cont.-in-part of U.S. 6,037,346.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6548490	B1	20030415	US 1999-467094	19991210
US 6037346	A	20000314	US 1998-181070	19981027 <--
CA 2394060	A1	20010614	CA 2000-2394060	20001208 <--
WO 2001041807	A2	20010614	WO 2000-US33372	20001208 <--
WO 2001041807	A3	20020214		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 200122566 A 20010618 AU 2001-22566 20001208 <--  
EP 1237577 A2 20020911 EP 2000-986297 20001208

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003516363 T 20030513 JP 2001-543151 20001208

US 2002037828 A1 20020328 US 2001-888250 20010621

US 6403597 B2 20020611

US 2002004498 A1 20020110 US 2001-938417 20010823

US 2003134861 A1 20030717 US 2003-351198 20030124

AU 2005248938 A1 20060202 AU 2005-248938 20051223

PRIORITY APPLN. INFO.:

US 1997-958816 B2 19971028

US 1998-181070 A2 19981027

US 1999-467094 A 19991210

AU 2001-22566 A3 20001208

WO 2000-US33372 W 20001208

AB A method is provided for treating erectile dysfunction in a mammalian male individual. The method involves the transmucosal administration of a phosphodiesterase inhibitor or a pharmaceutically acceptable salt, ester, amide or derivative thereof, within the context of an effective dosing regimen. Preferred modes of administration include transbuccal, sublingual and transrectal routes. Pharmaceutical formulations and kits are provided as well.

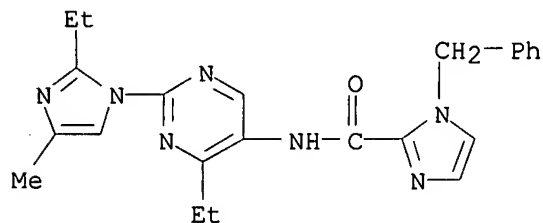
IT 156817-83-3 156817-84-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(transmucosal administration of phosphodiesterase inhibitors for the treatment of erectile dysfunction)

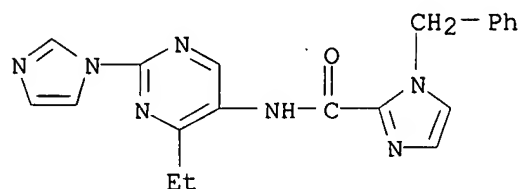
RN 156817-83-3 CAPLUS

CN 1H-Imidazole-2-carboxamide, N-[4-ethyl-2-(2-ethyl-4-methyl-1H-imidazol-1-yl)-5-pyrimidinyl]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 156817-84-4 CAPLUS

CN 1H-Imidazole-2-carboxamide, N-[4-ethyl-2-(1H-imidazol-1-yl)-5-pyrimidinyl]-1-(phenylmethyl)- (9CI). (CA INDEX NAME)



REFERENCE COUNT: 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
55.65	227.96

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
-7.80	-7.80

CA SUBSCRIBER PRICE

FILE 'STNGUIDE' ENTERED AT 13:39:48 ON 19 JUN 2007  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jun 15, 2007 (20070615/UP).

=> d ibib abs hitstr 11-20  
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L5 ANSWER 11 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2002:870084 CAPLUS  
DOCUMENT NUMBER: 137:333159  
TITLE: COX-2 inhibitors for treatment of headache  
INVENTOR(S): Catarci, Teresa  
PATENT ASSIGNEE(S): Pfizer Italiana S.P.A., Italy  
SOURCE: Ital. Appl., 181 pp.  
CODEN: ITXXCZ  
DOCUMENT TYPE: Patent  
LANGUAGE: Italian  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 2000MI0044	A1	20010717	IT 2000-MI44	20000117 <--
PRIORITY APPLN. INFO.:			IT 2000-MI44	20000117

OTHER SOURCE(S): MARPAT 137:333159

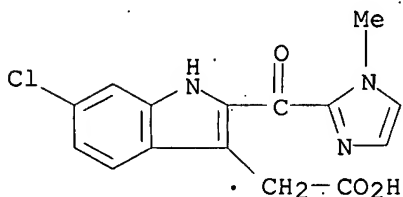
AB The invention concerns the use of certain inhibitors of cyclooxygenase-2 (COX-2) for manufacture of medications with which to treat headache, including hemicrania. The COX-2 inhibitors are intended for use in humans.

IT 231292-42-5 231294-42-1 231294-43-2  
231294-44-3 231294-45-4 231294-46-5  
231294-47-6 231294-48-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(COX-2 inhibitors for treatment of headache)

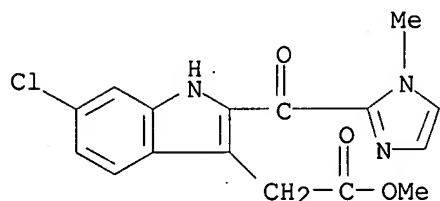
RN 231292-42-5 CAPLUS

CN 1H-Indole-3-acetic acid, 6-chloro-2-[(1-methyl-1H-imidazol-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



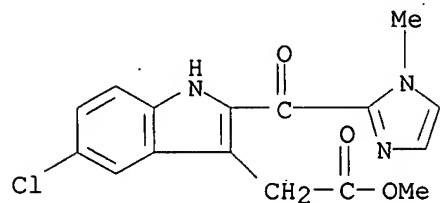
RN 231294-42-1 CAPLUS

CN 1H-Indole-3-acetic acid, 6-chloro-2-[(1-methyl-1H-imidazol-2-yl)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



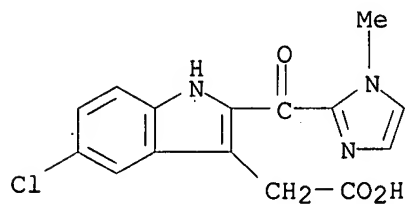
RN 231294-43-2 CAPLUS

CN 1H-Indole-3-acetic acid, 5-chloro-2-[(1-methyl-1H-imidazol-2-yl)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



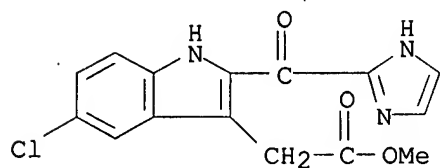
RN 231294-44-3 CAPLUS

CN 1H-Indole-3-acetic acid, 5-chloro-2-[(1-methyl-1H-imidazol-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



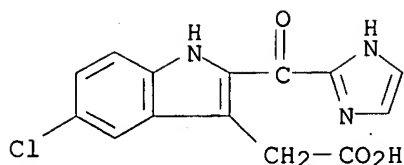
RN 231294-45-4 CAPLUS

CN 1H-Indole-3-acetic acid, 5-chloro-2-(1H-imidazol-2-ylcarbonyl)-, methyl ester (9CI) (CA INDEX NAME)

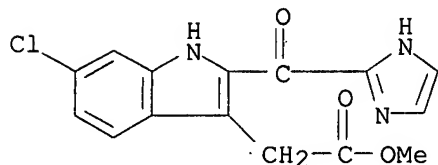


RN 231294-46-5 CAPLUS

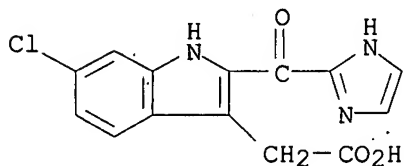
CN 1H-Indole-3-acetic acid, 5-chloro-2-(1H-imidazol-2-ylcarbonyl)- (9CI) (CA INDEX NAME)



RN 231294-47-6 CAPLUS  
 CN 1H-Indole-3-acetic acid, 6-chloro-2-(1H-imidazol-2-ylcarbonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 231294-48-7 CAPLUS  
 CN 1H-Indole-3-acetic acid, 6-chloro-2-(1H-imidazol-2-ylcarbonyl)- (9CI) (CA INDEX NAME)

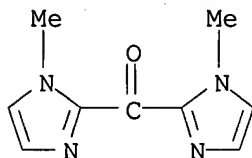


L5 ANSWER 12 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:863136 CAPLUS  
 DOCUMENT NUMBER: 138:179739  
 TITLE: X-ray crystal structural determination of copper(II)-nitrilotriacetic acid-bis(N-methylimidazol-2-yl)ketone ternary complex  
 AUTHOR(S): Burns, Christopher J.; Field, Leslie D.; Hambley, Trevor W.; Lin, Thomas; Ridley, Damon D.; Turner, Peter; Wilkinson, Matthew P.  
 CORPORATE SOURCE: Sch. Chem. Cooperative Res. Cent. Mol. Eng. Technol., University of Sydney, Sydney, N.S.W. 2006, Australia  
 SOURCE: ARKIVOC (Gainesville, FL, United States) [online computer file] (2001), (7), 157-165  
 CODEN: AGFUAR  
 URL: <http://www.arkat-usa.org/ark/journal/Volume2/Part3/Cameron/DC-277/DC-277B.pdf>  
 PUBLISHER: Arkat USA Inc.  
 DOCUMENT TYPE: Journal; (online computer file)  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 138:179739  
 AB The preparation and x-ray crystal structure of a ternary complex of copper(II), [Cu(NTA)(L)], (H3NTA = nitrilotriacetic acid, L = bis(N-methylimidazol-2-yl) ketone) is reported. The copper adopts a distorted square pyramidal geometry with the NTA nitrogen atom occupying the axial position. This structure provides information about the nature of the interaction of metal complexes of NTA with polyhistidine peptides.  
 IT 62366-40-9P, Bis(N-methylimidazol-2-yl) ketone  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reactant for preparation of copper(II) nitrilotriacetate  
bis(N-methylimidazolyl) ketone complex)

RN 62366-40-9 CAPLUS

CN Methanone, bis(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:830274 CAPLUS

DOCUMENT NUMBER: 137:325643

TITLE: Polyamides binding to minor groove of double-stranded  
DNA and their use in control of gene expression

INVENTOR(S): Baird, Eldon E.; Dervan, Peter B.

PATENT ASSIGNEE(S): California Institute of Technology, USA

SOURCE: U.S., 53 pp., Cont.-in-part of Appl. No.  
PCT/US97/12722.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6472537	B1	20021029	US 1999-372473	19990811
US 6090947	A	20000718	US 1996-607078	19960226 <--
WO 9730975	A2	19970828	WO 1997-US3332	19970220 <--
WO 9730975	A3	19971016		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 6143901	A	20001107	US 1997-837524	19970421 <--
US 6635417	B1	20031021	US 1997-853522	19970508
WO 9850582	A1	19981112	WO 1997-US12722	19970721 <--
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
WO 9837066	A1	19980827	WO 1998-US1006	19980121 <--
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:

US 1996-607078	A2 19960226
US 1996-23309P	P 19960731
US 1996-24374P	P 19960801
US 1996-26713P	P 19960925
US 1997-38384P	P 19970214
WO 1997-US3332	A2 19970220
US 1997-42022P	P 19970406
US 1997-43444P	P 19970408
US 1997-837524	A2 19970421
US 1997-853522	B2 19970508
WO 1997-US12722	A2 19970721
WO 1998-US1006	A 19980128

AB The invention encompasses improved polyamides for binding to specific nucleotide sequences in the minor groove of double-stranded DNA. The polyamides are in the form of a hairpin comprising two groups of a least three consecutive carboxamide residues, the two groups covalently linked by an aliphatic amino acid residue, preferably  $\gamma$ -aminobutyric acid or 2,4-diaminobutyric acid, the consecutive carboxamide residues of the first group pairing being in an antiparallel manner with the consecutive carboxamide residues of the second group in the minor groove of double-stranded DNA. The 3-hydroxy-N-methylpyrrole/N-methylpyrrole carboxamide pair specifically recognizes the T·A base pair, while the N-methylpyrrole/3-hydroxy-N-methylpyrrole pair recognizes A·T nucleotide pairs. Similarly, an N-methylimidazole/N-methylpyrrole carboxamide pair specifically recognizes the G·C nucleotide pair, and the N-methylpyrrole/N-methylimidazole carboxamide pair recognizes the C·G nucleotide pair. Preferably, the binding of the polyamide to the DNA modulates the expression of a gene. Increased specificity of 3-hydroxy-N-methylpyrrole-containing polyamides was demonstrated.

IT 193743-37-2P 206128-30-5P 206128-31-6P  
 210578-88-4P 210578-89-5P 210578-90-8P  
 210578-91-9P 210578-92-0P 210578-93-1P  
 210578-94-2P 210578-95-3P 210578-96-4P  
 210578-97-5P 210578-98-6P 212180-64-8P  
 212180-67-1P 212180-71-7P 212180-74-0P  
 212180-76-2P 212180-80-8P 212180-83-1P  
 212180-87-5P 212180-91-1P 212180-95-5P  
 212180-97-7P 212181-00-5P 212181-04-9P  
 212181-09-4P 212181-13-0P 212181-15-2P  
 212181-16-3P 212181-18-5P 212181-20-9P  
 212181-22-1P 212181-24-3P 212181-26-5P  
 212181-28-7P 212181-30-1P 212181-32-3P  
 212181-33-4P 212181-34-5P 212181-35-6P  
 212181-36-7P 212181-37-8P 212181-38-9P  
 212181-39-0P 212181-40-3P 212181-41-4P  
 212181-42-5P 212181-43-6P 212181-44-7P  
 212181-45-8P 212181-46-9P 212181-47-0P  
 212181-48-1P 212181-49-2P 212181-50-5P  
 212181-51-6P 212181-52-7P 212181-53-8P  
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 212181-62-9P 212181-64-1P 212181-70-9P  
 212181-72-1P 212181-77-6P 212181-79-8P  
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RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

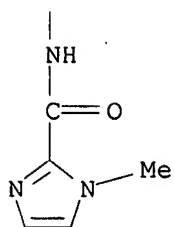
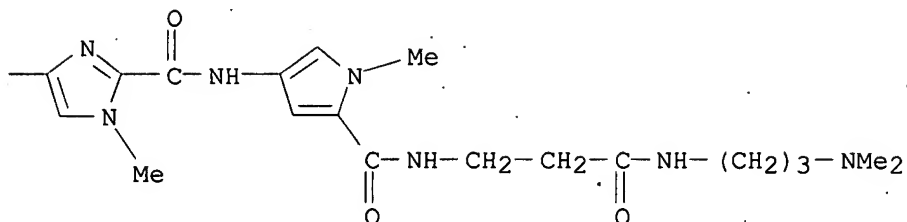
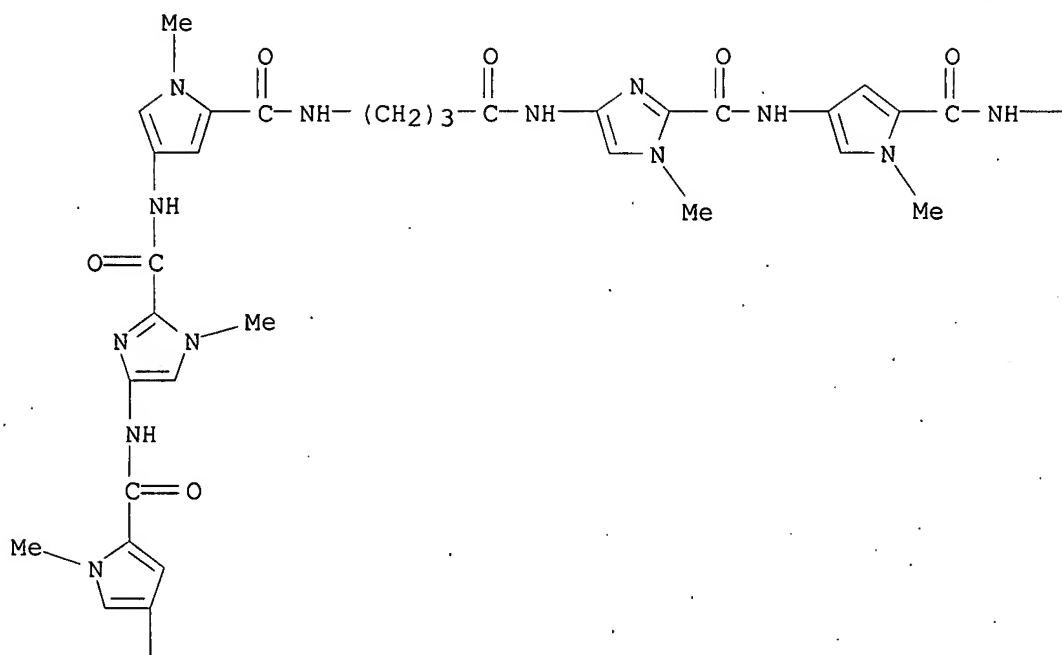
BIOL (Biological study); PREP (Preparation)

(polyamides binding to minor groove of double-stranded DNA and their use in control of gene expression)

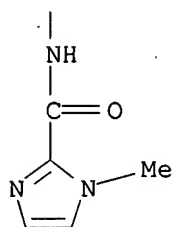
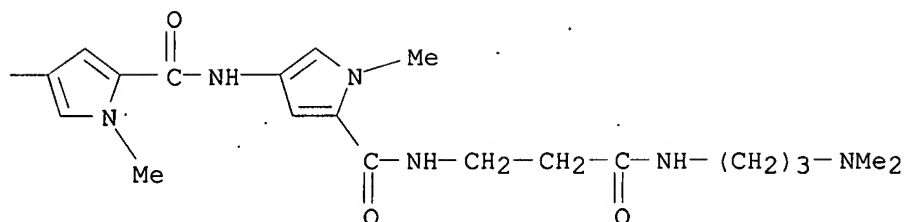
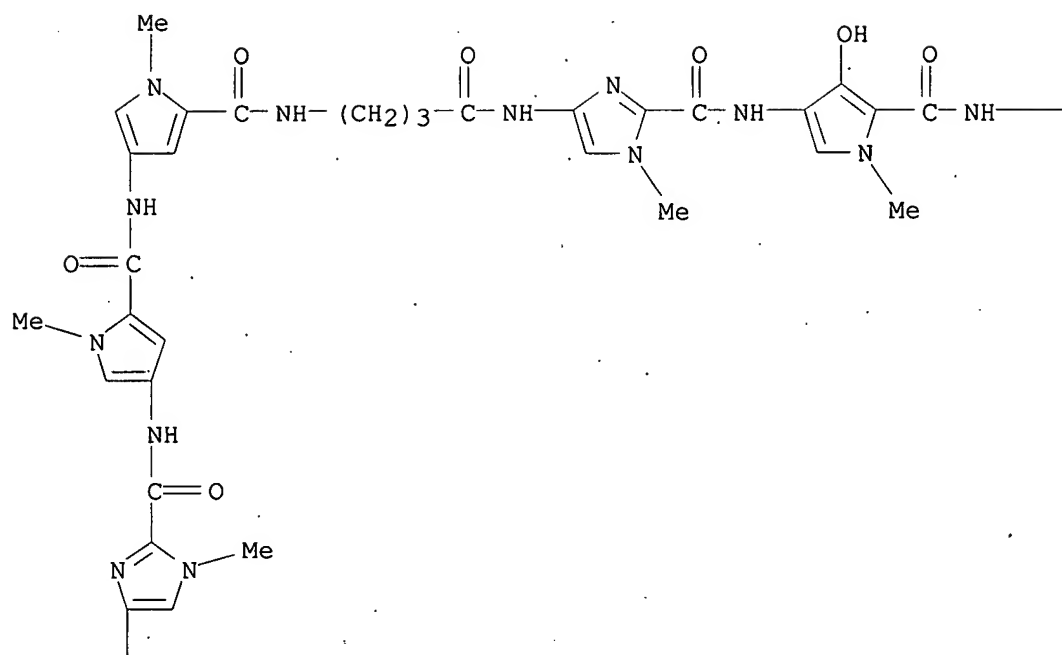
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 methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-4-  
 oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[1-methyl-4-  
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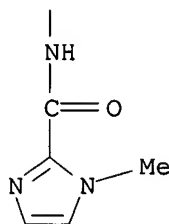
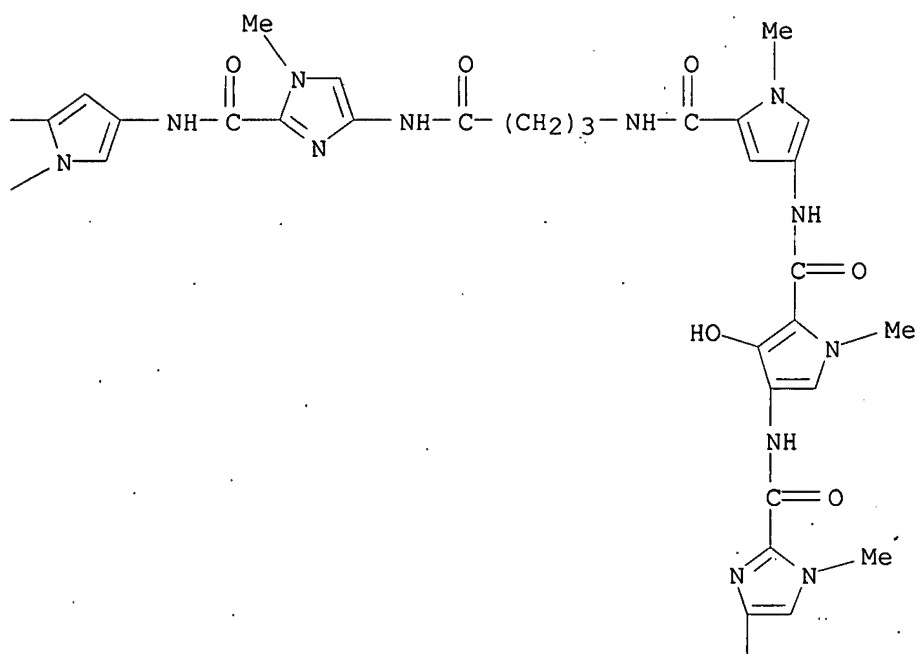
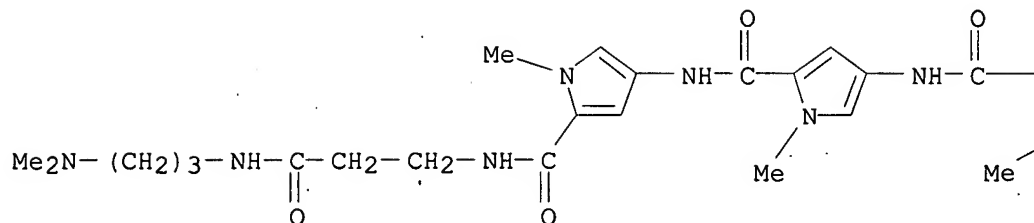




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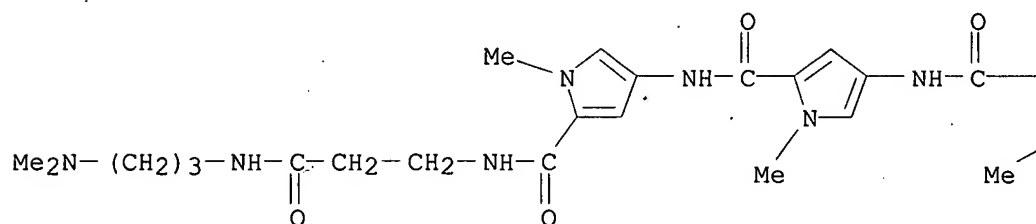
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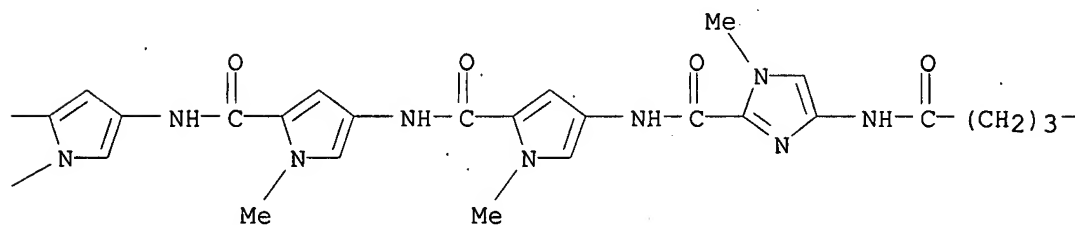
RN 210578-88-4 CAPLUS  
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(CA INDEX NAME)

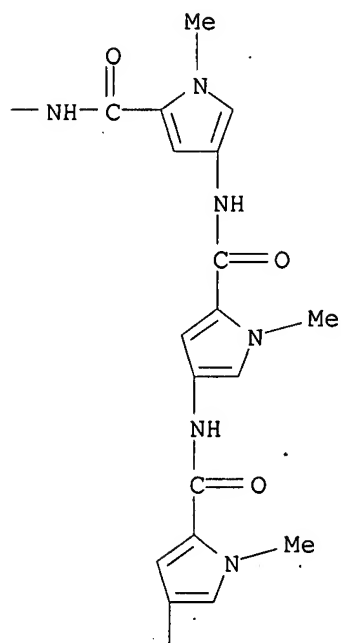
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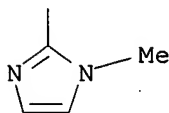
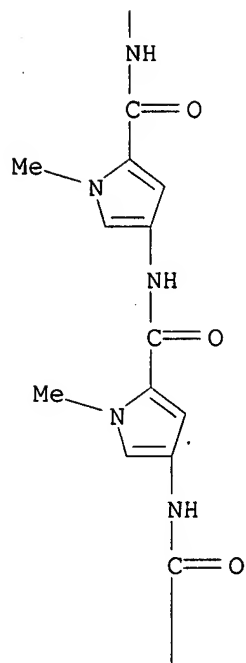


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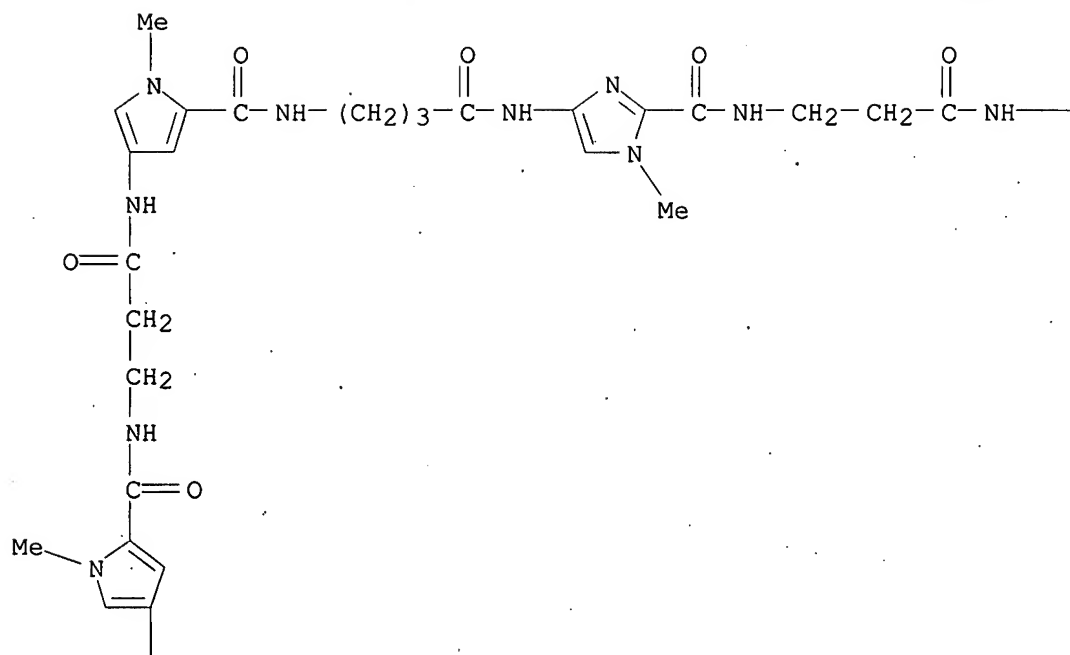
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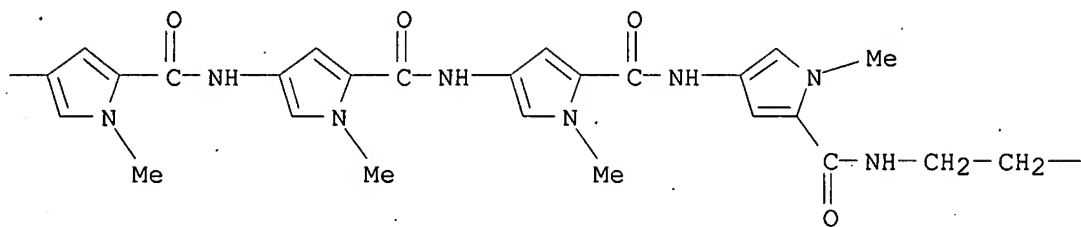


RN 210578-89-5 CAPLUS  
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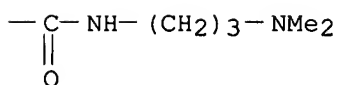
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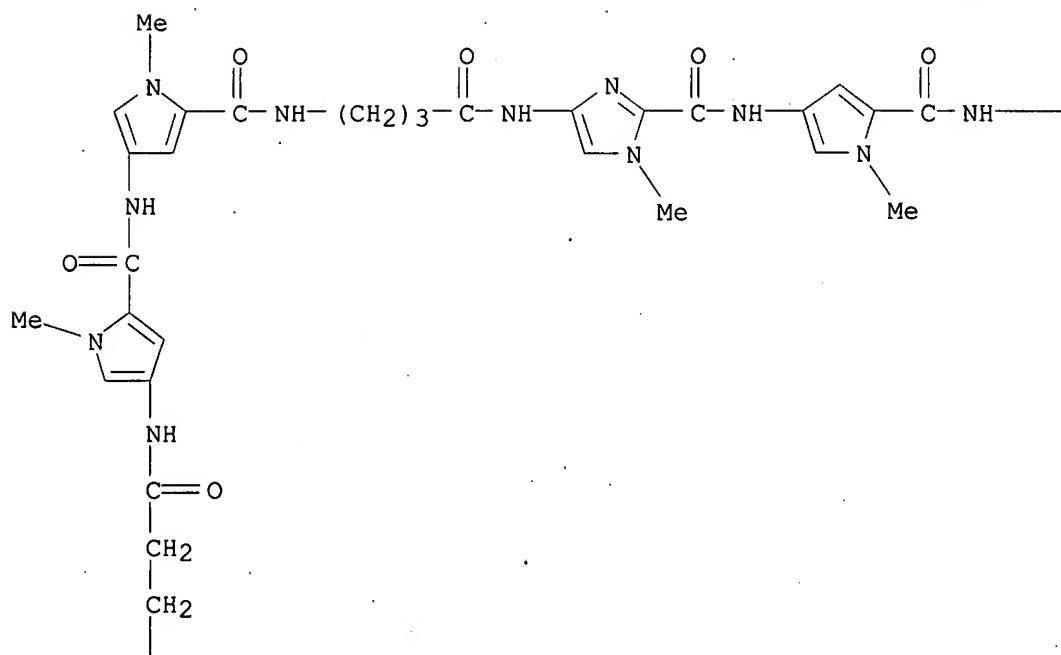


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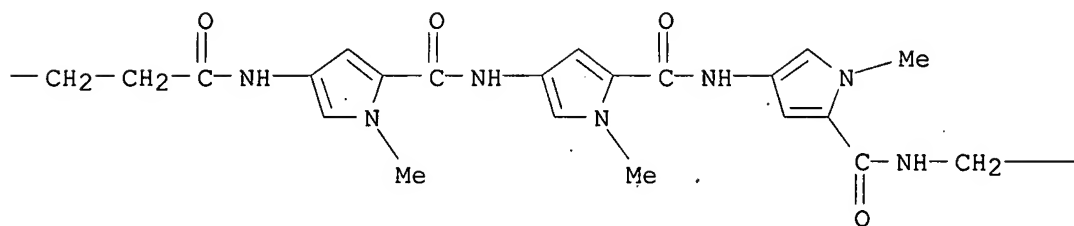




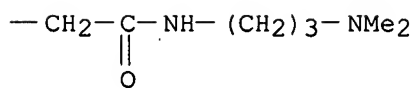
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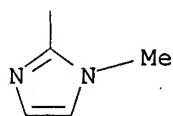
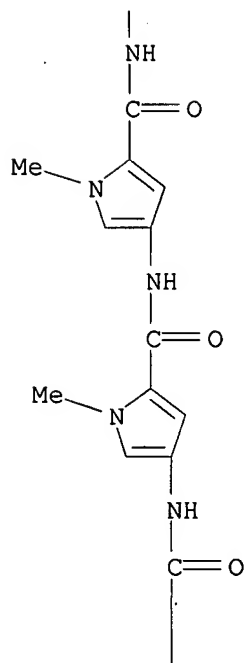
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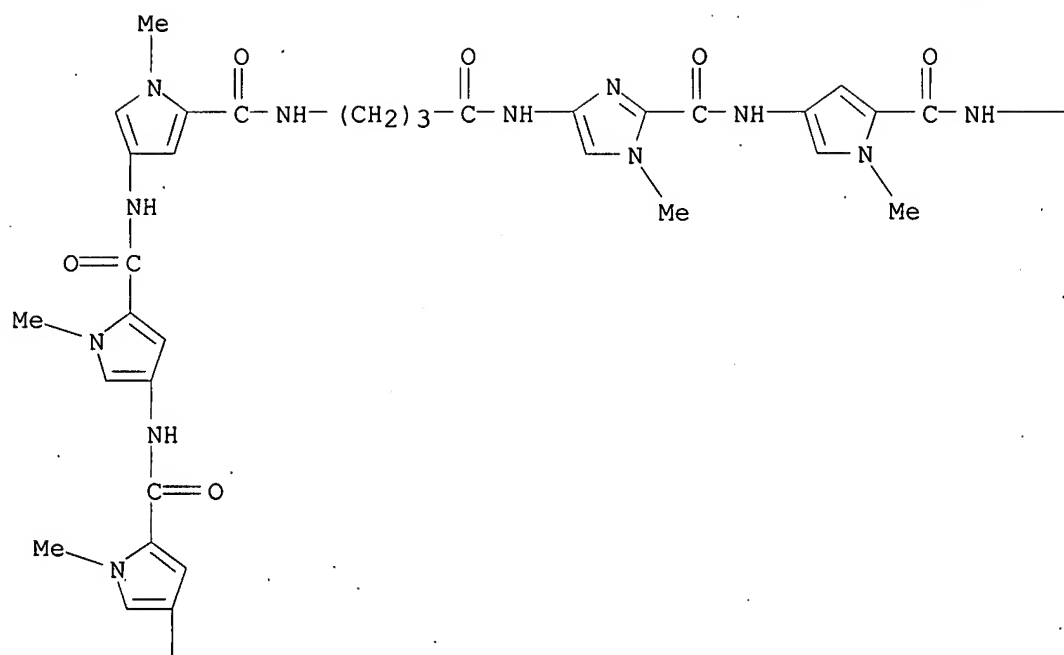




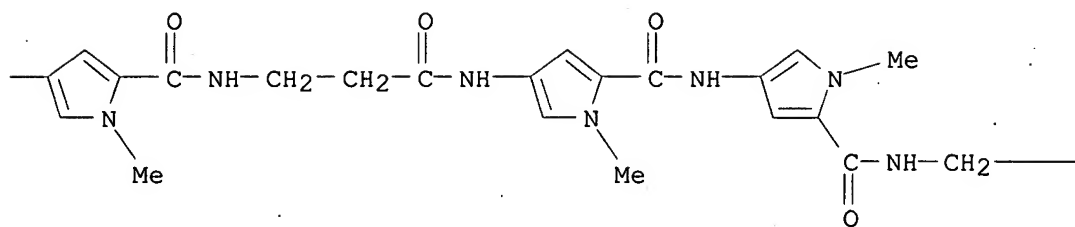


RN 210578-91-9 CAPLUS  
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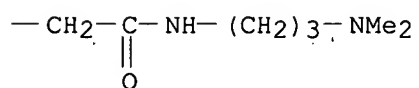
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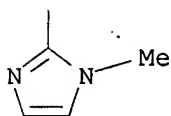
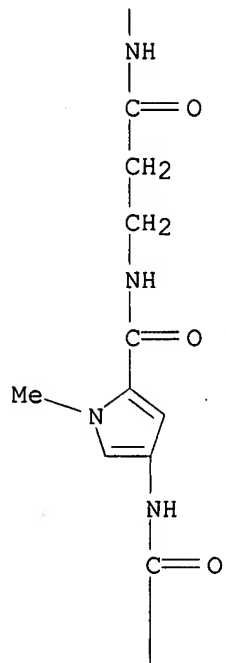


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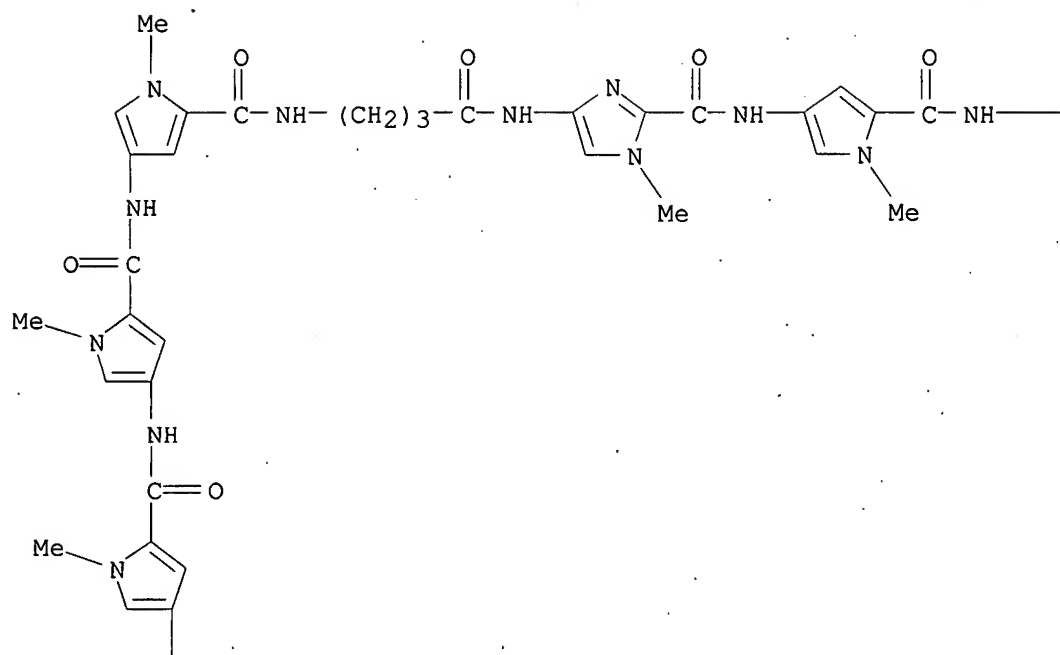




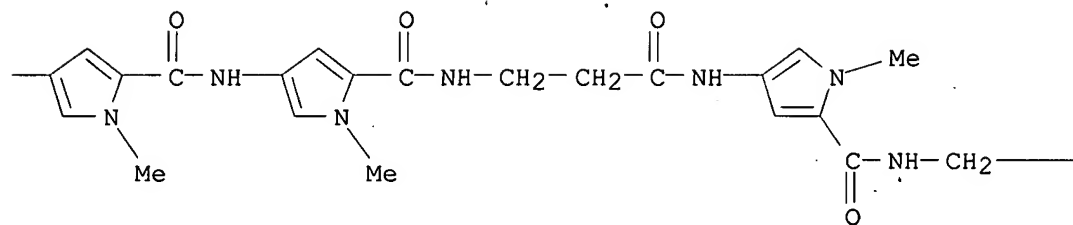
RN 210578-92-0 CAPLUS

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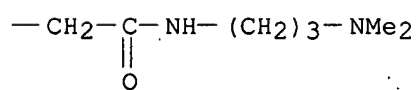
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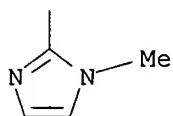
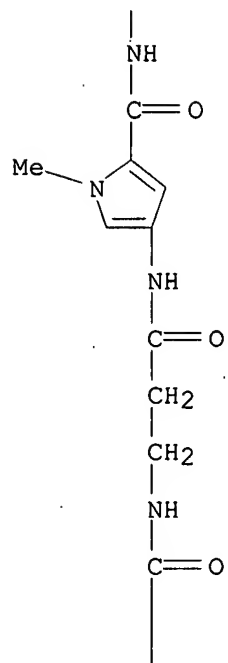


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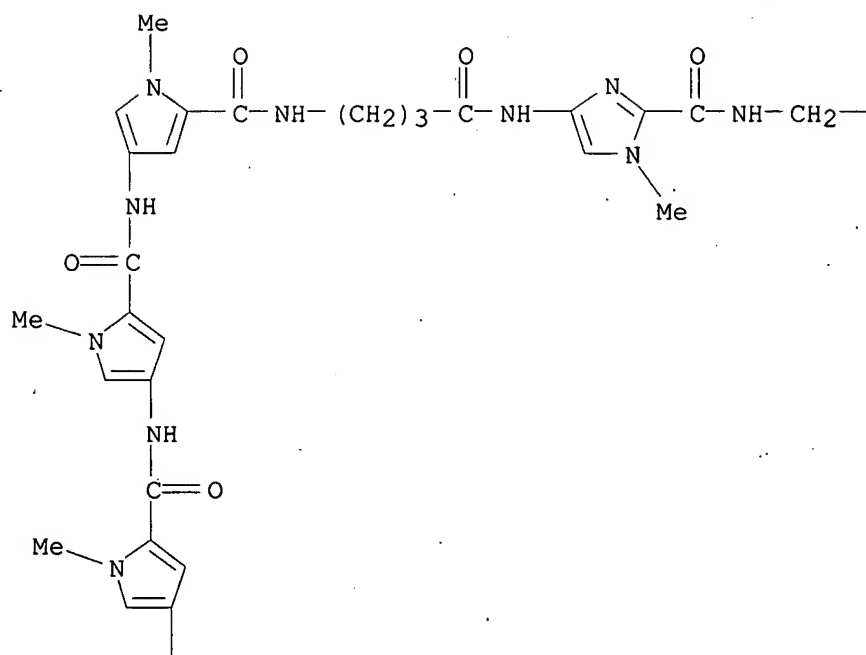
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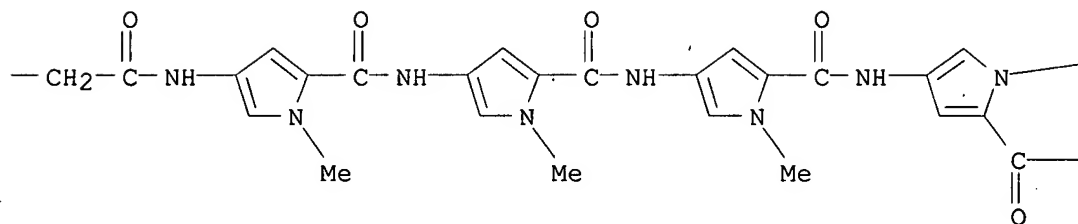


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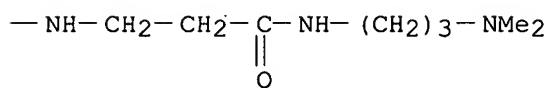


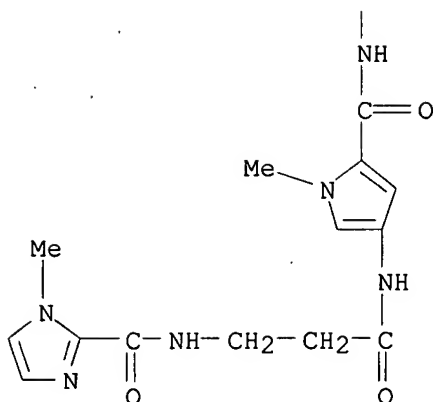
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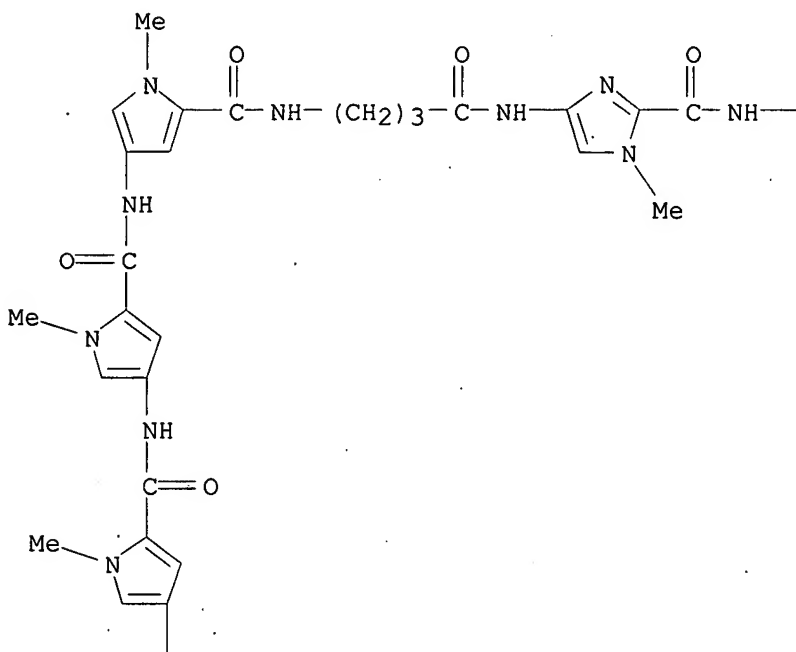
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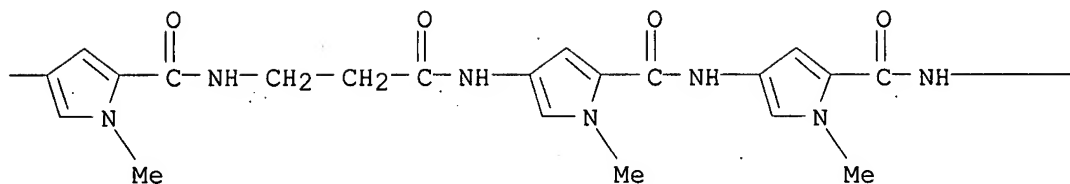


RN 210578-94-2 CAPLUS

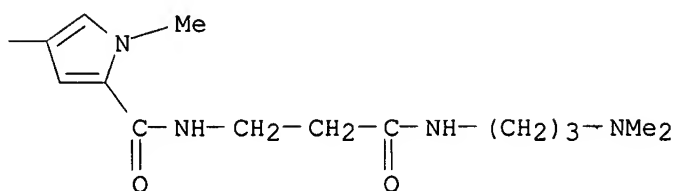
CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]- (9CI) (CA INDEX NAME)



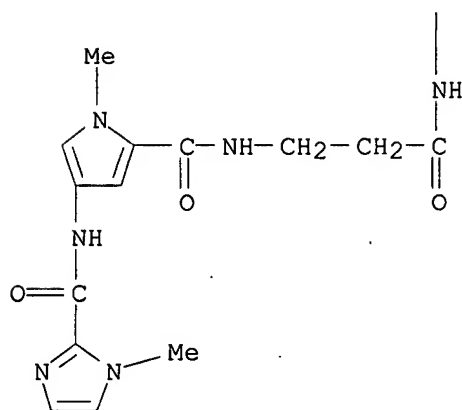
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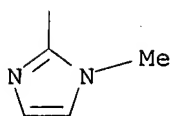
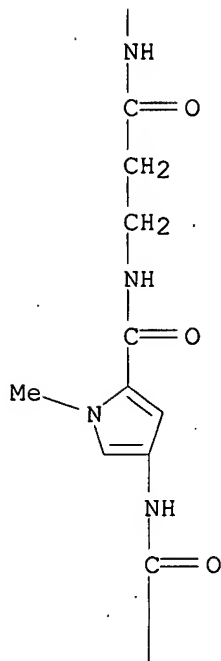


RN 210578-95-3 CAPLUS

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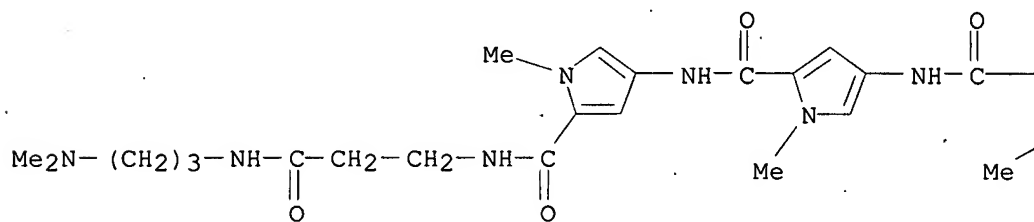




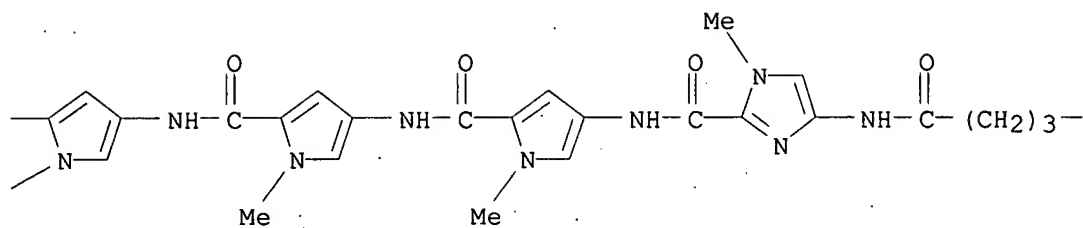


RN 210578-96-4 CAPLUS

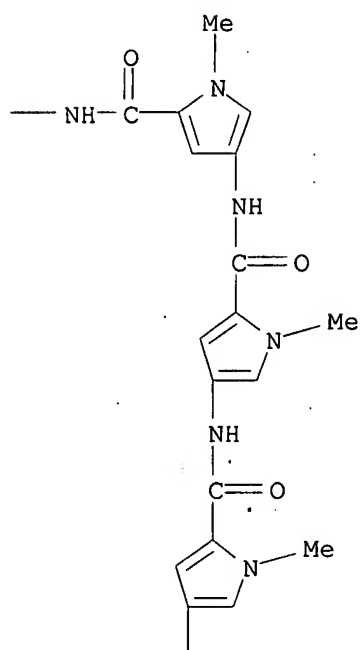
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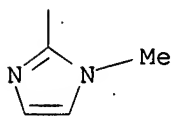
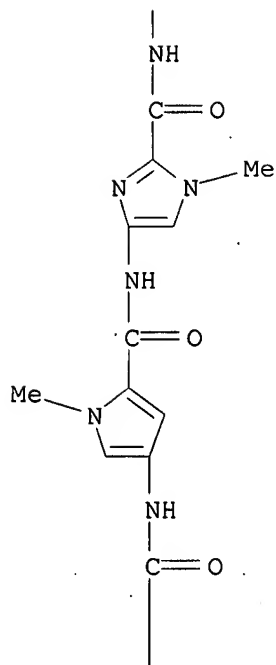


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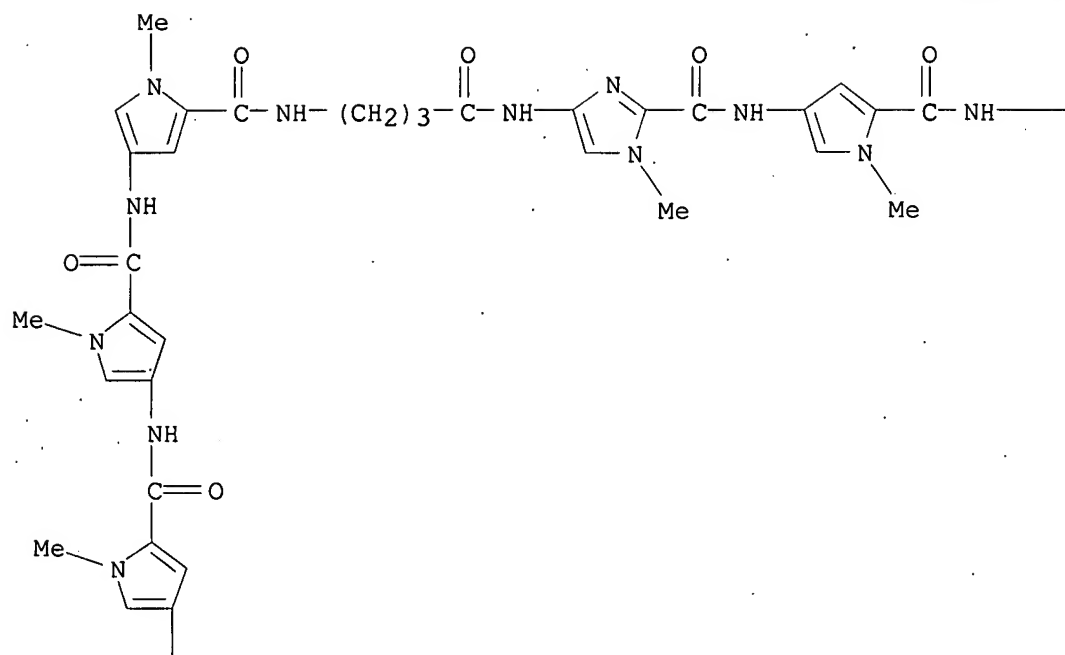
PAGE 1-C



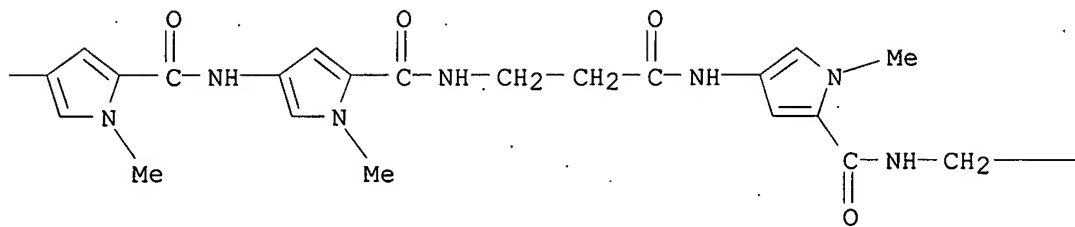


RN 210578-97-5 CAPLUS  
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[5-[[[4-[[2-[[[5-[[[5-[[[5-[[[3-  
 [[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-  
 methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-  
 pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-  
 methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-4-  
 oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-  
 1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-  
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 (CA INDEX NAME)

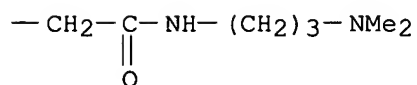
PAGE 1-A

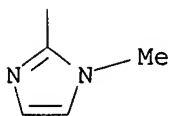
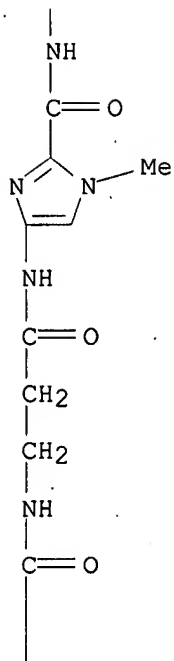


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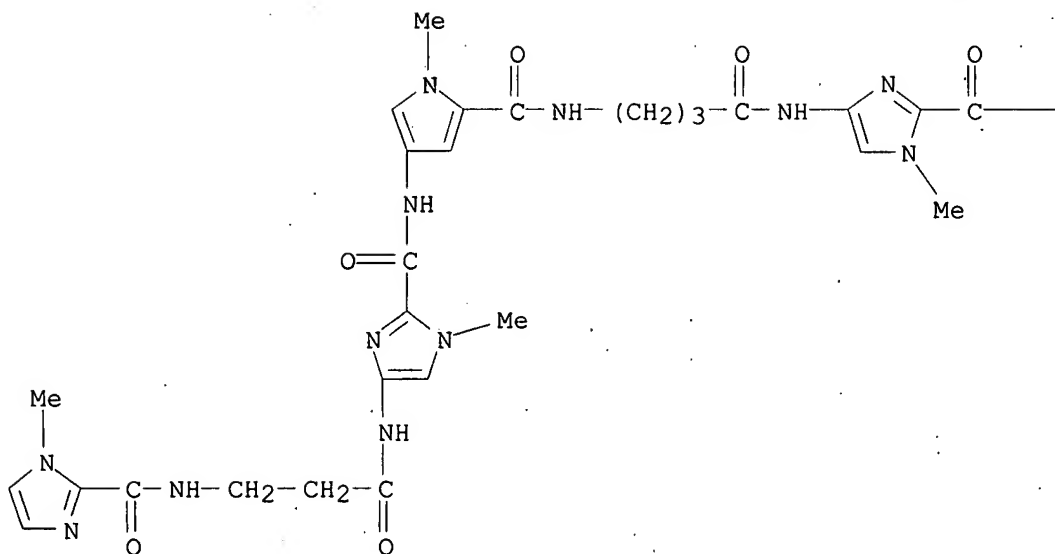
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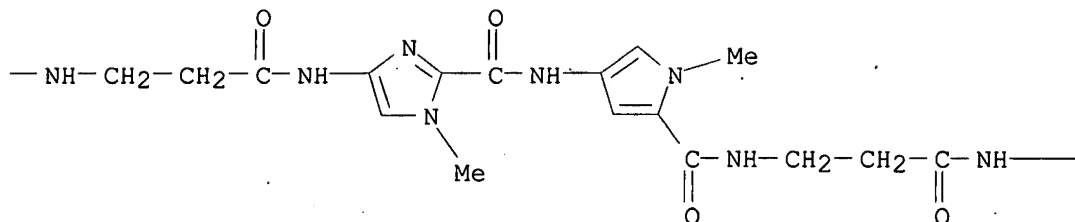


RN 210578-98-6 CAPLUS  
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[2-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1-oxopropyl]amino]-(9CI) (CA INDEX NAME)

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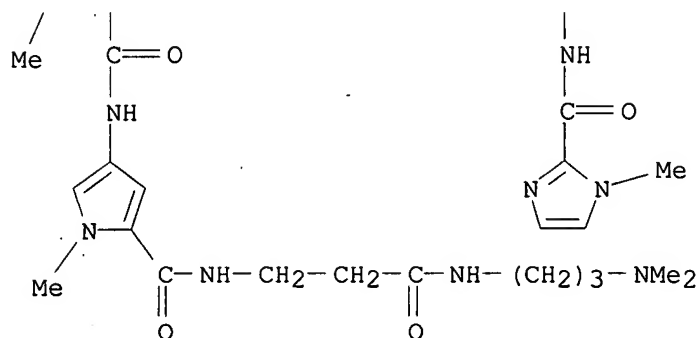
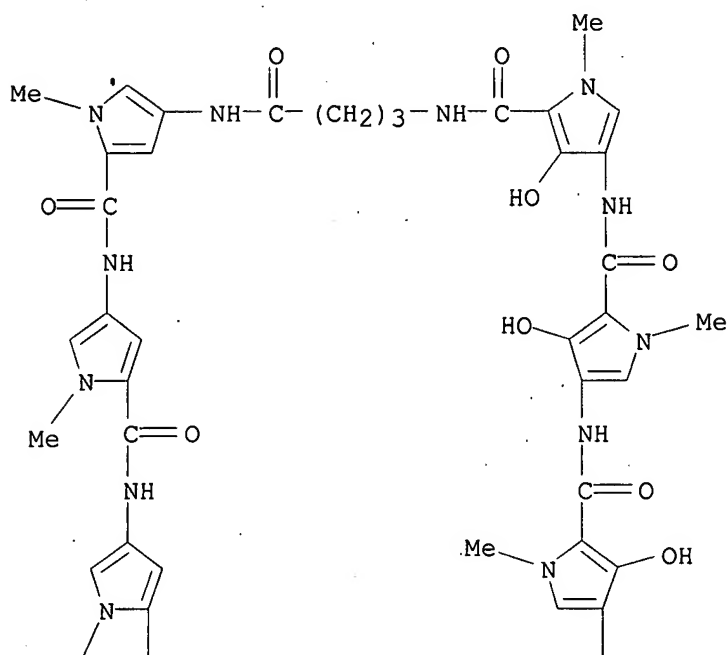


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— (CH<sub>2</sub>)<sub>3</sub>—NMe<sub>2</sub>

RN 212180-64-8 CAPLUS

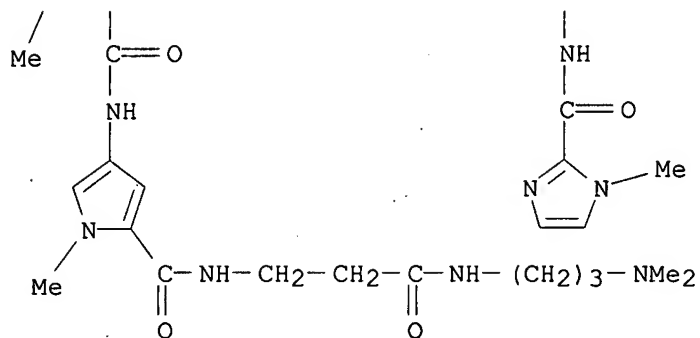
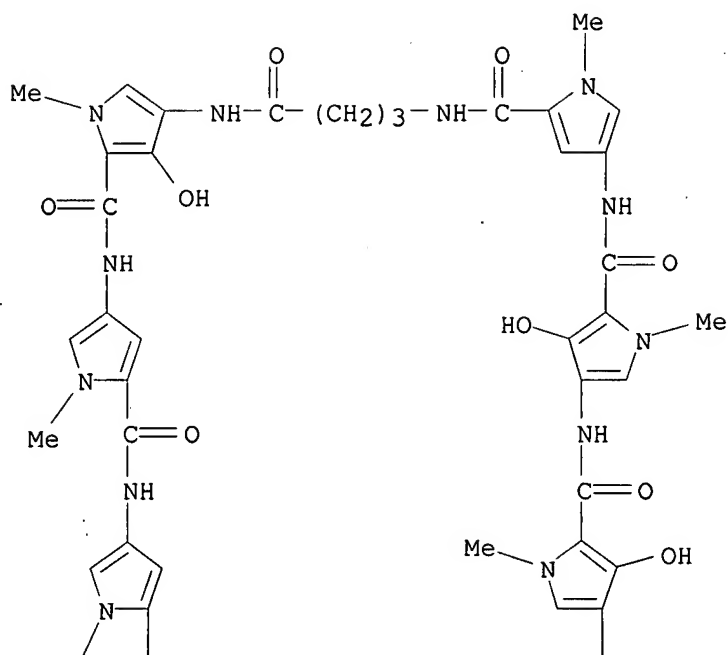
CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212180-67-1 CAPLUS

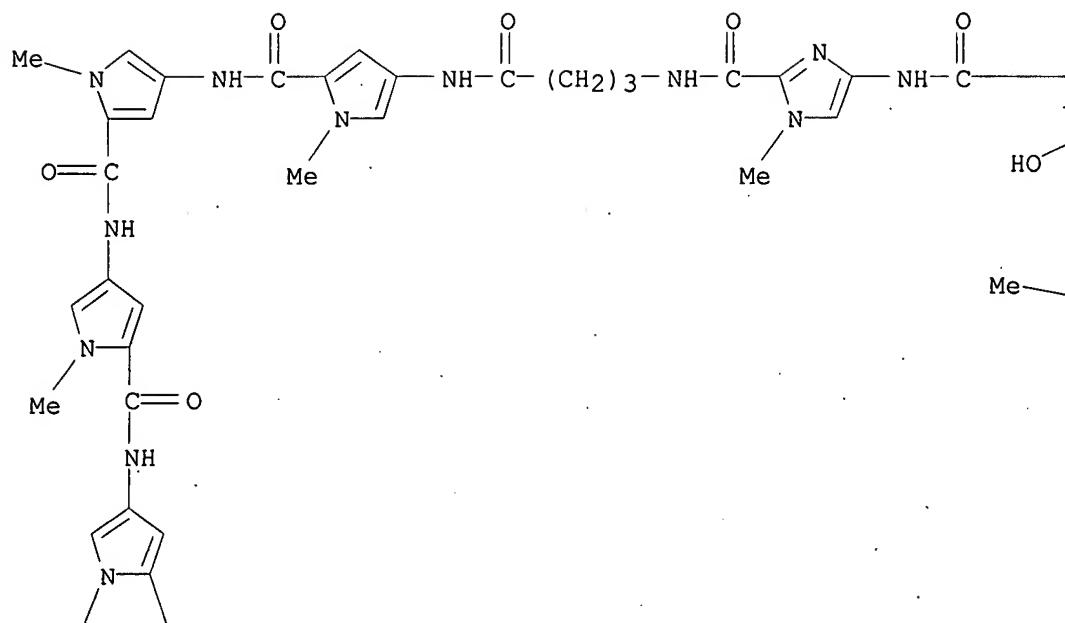
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



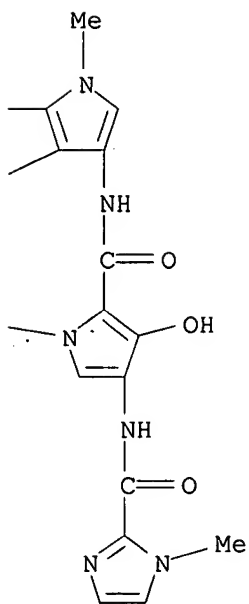


RN 212180-71-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

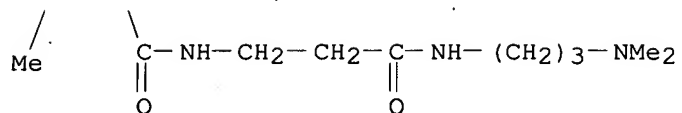
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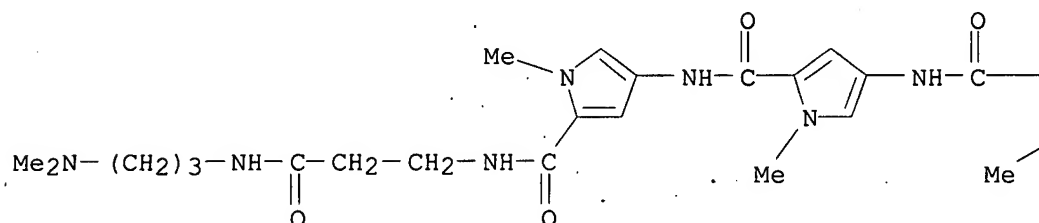


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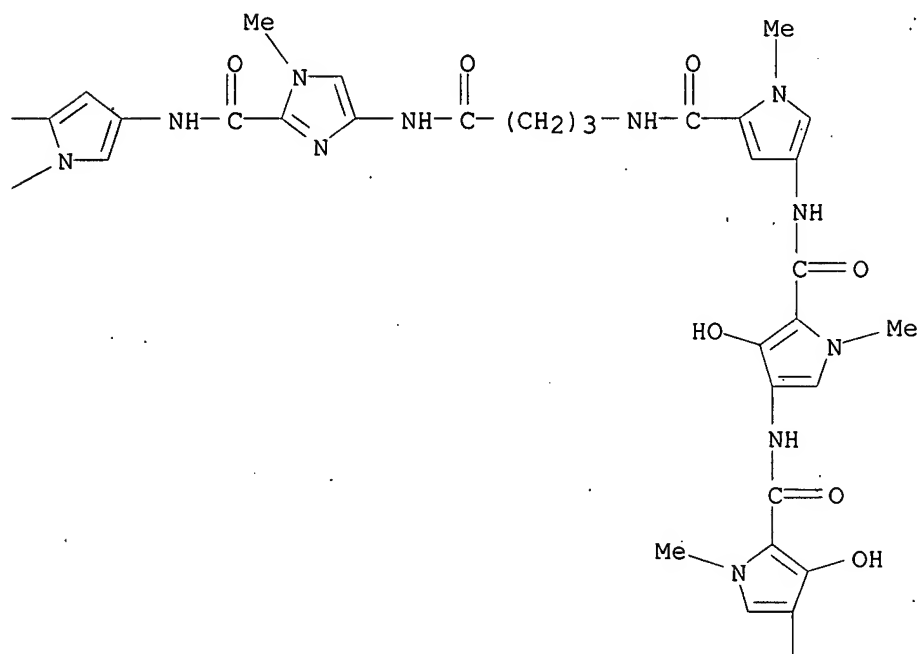


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

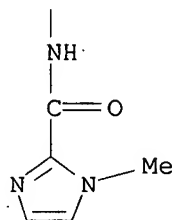
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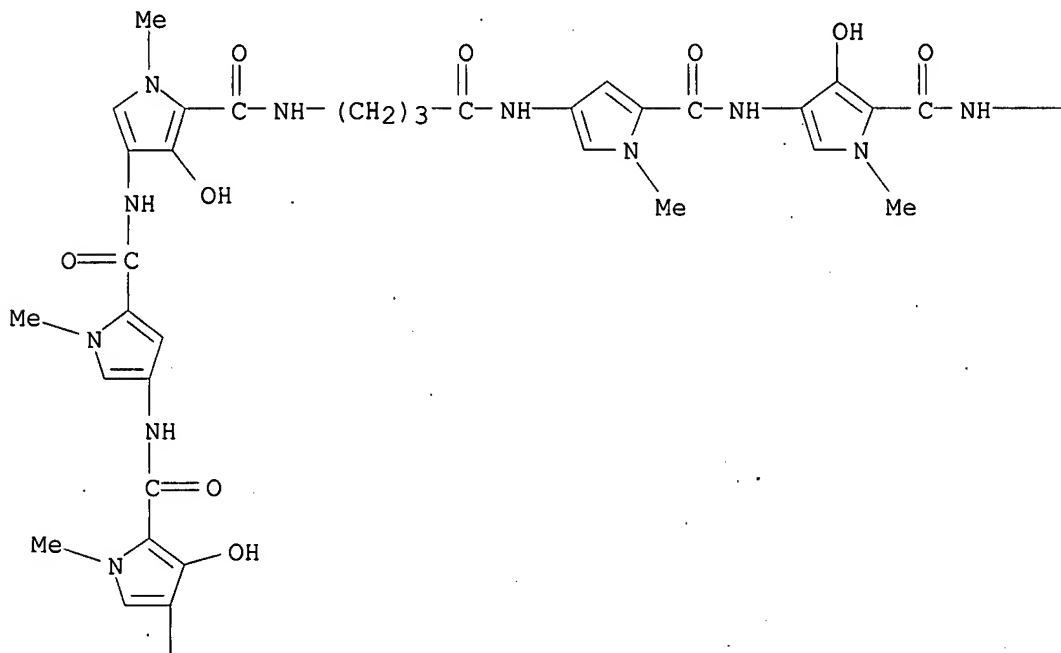
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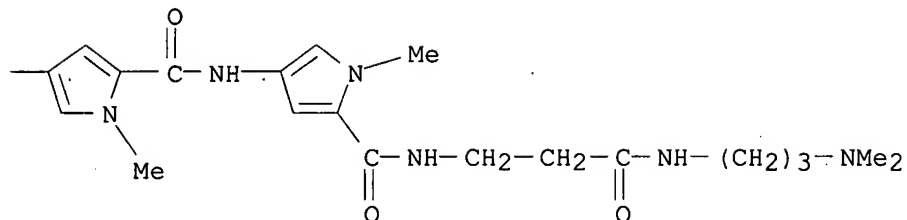
RN 212180-76-2 CAPLUS  
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1H-imidazol-2-yl) carbonyl] amino] prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) : (CA INDEX NAME)

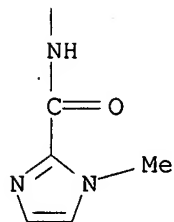
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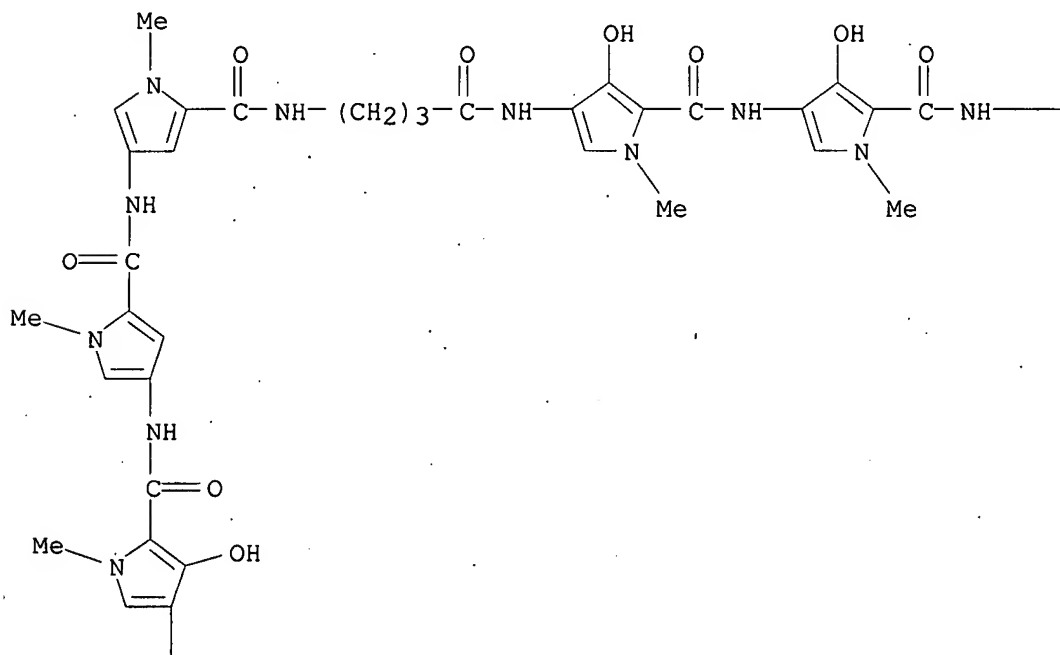


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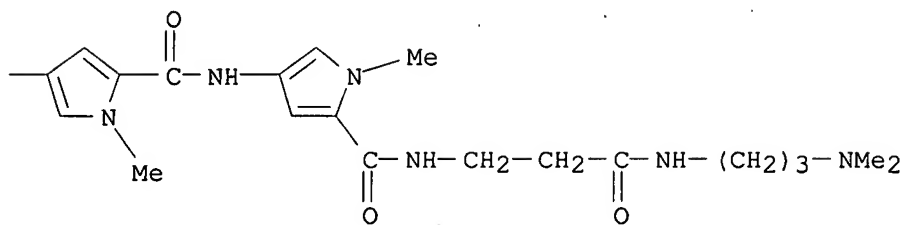


RN	212180-80-8	CAPLUS
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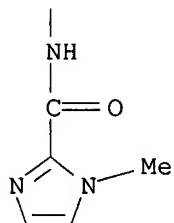
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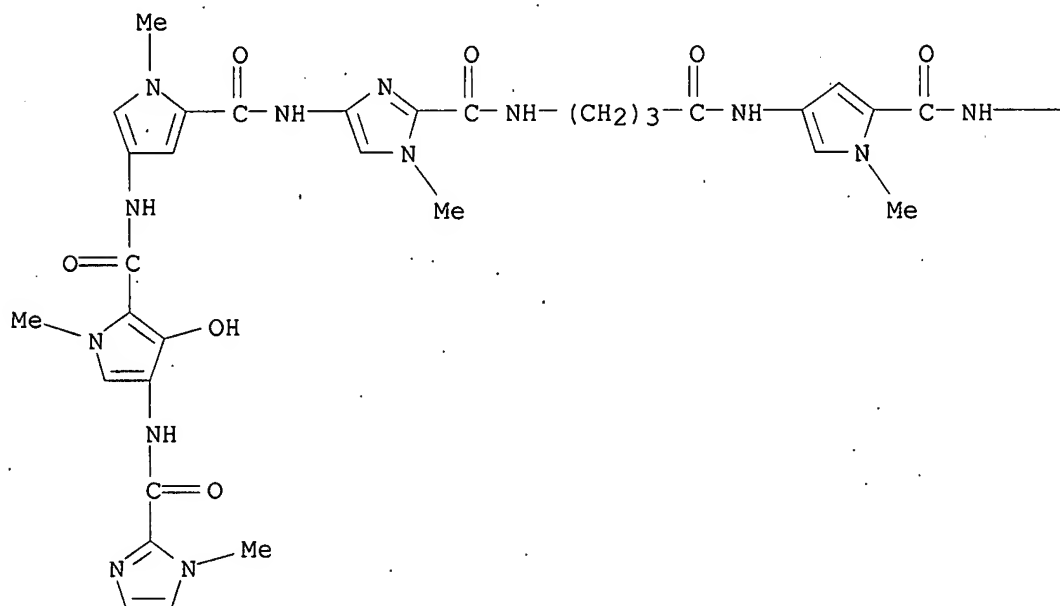
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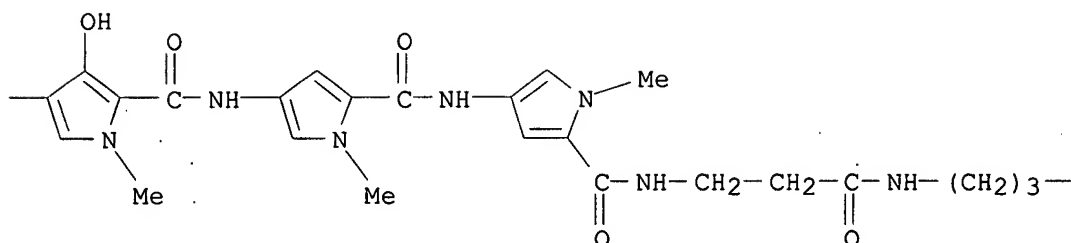
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4'-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-

methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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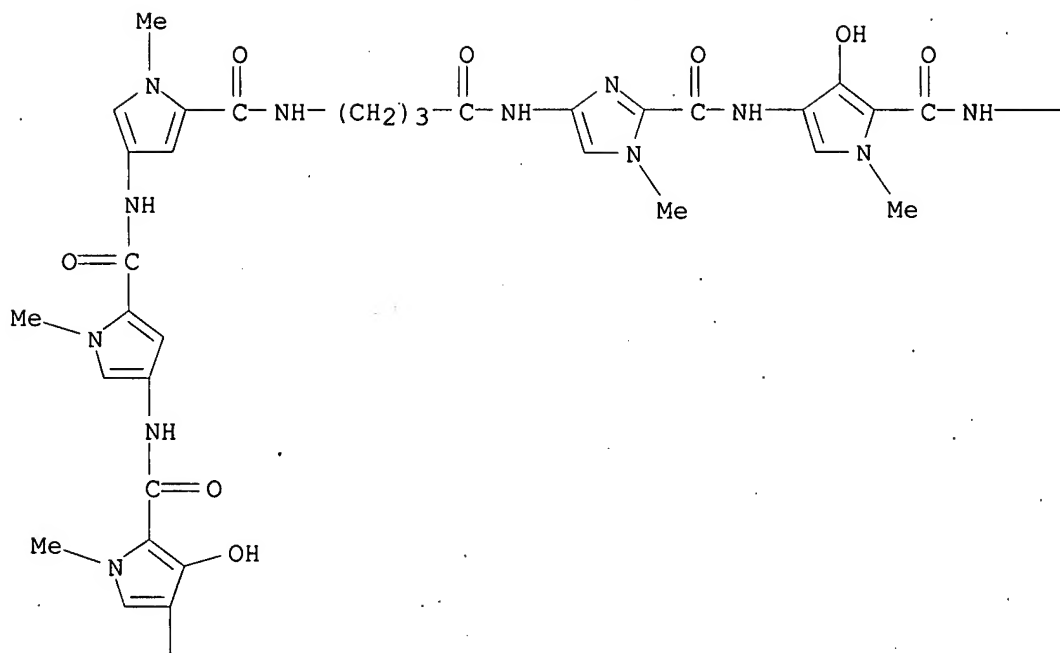


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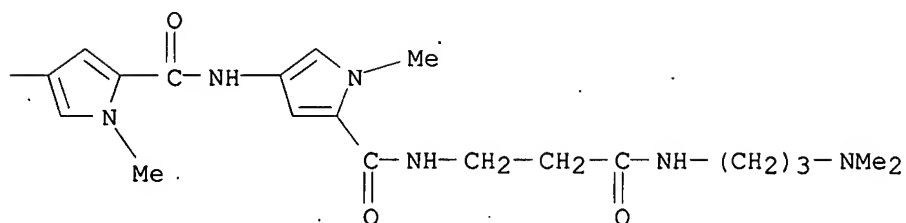
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RN 212180-87-5 CAPLUS  
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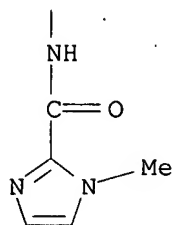
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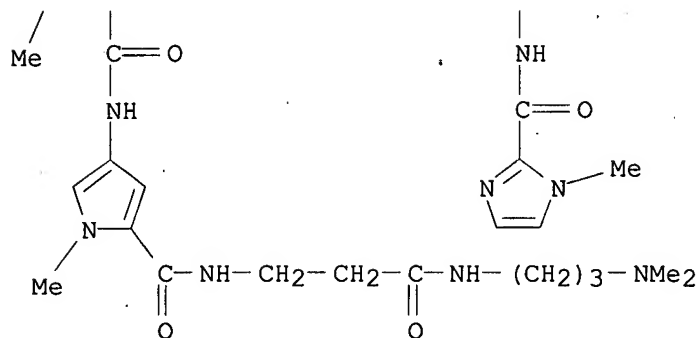
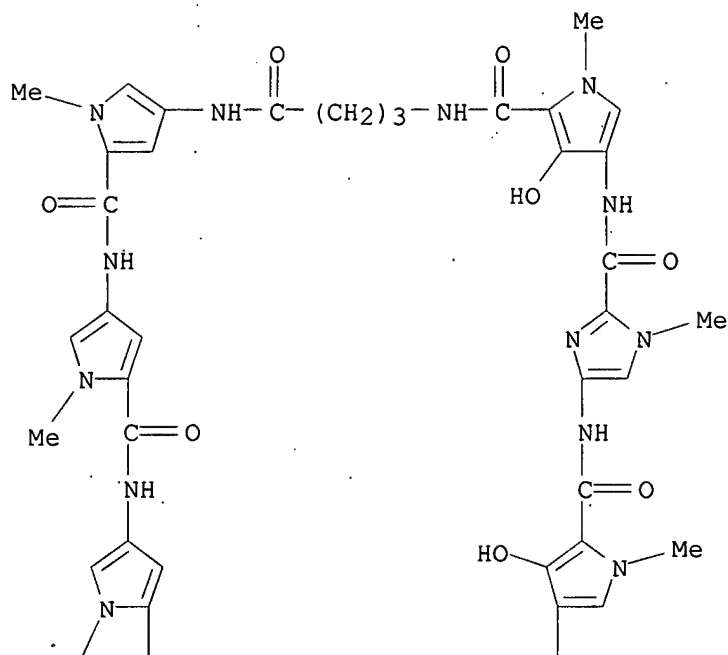


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RN 212180-91-1 CAPLUS

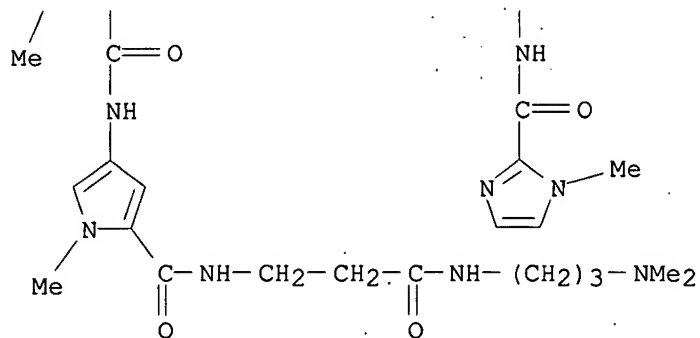
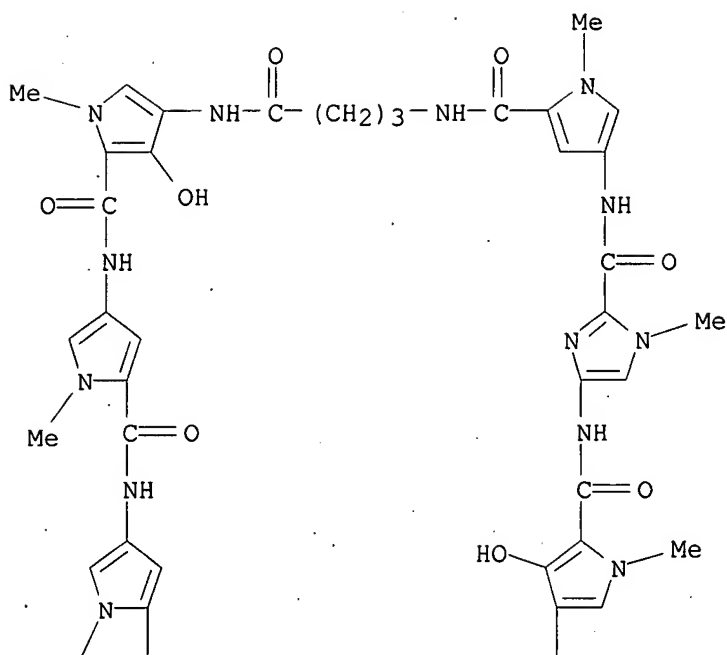
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212180-95-5 CAPLUS

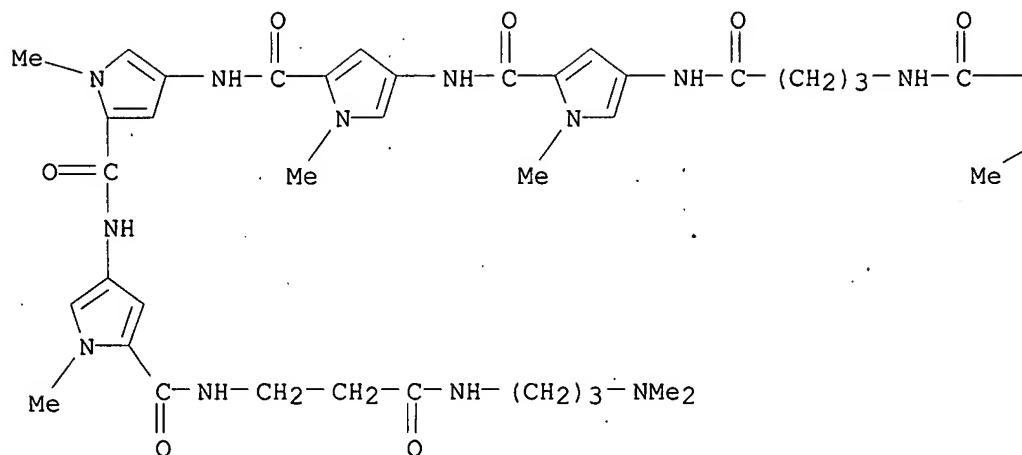
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



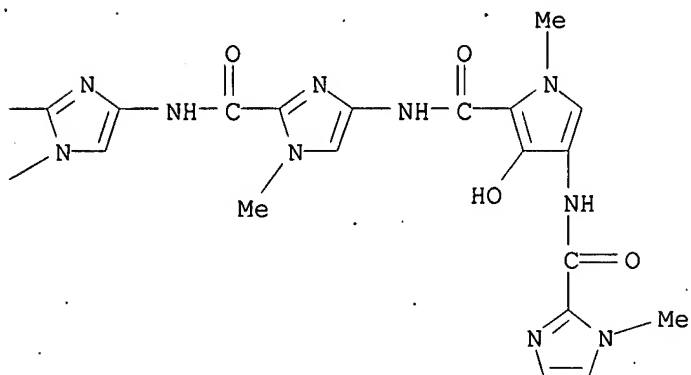


RN 212180-97-7 CAPLUS  
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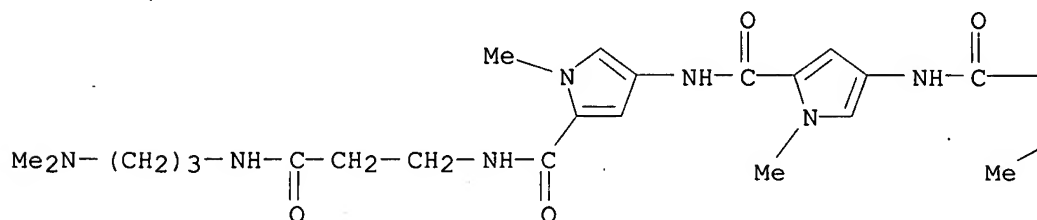
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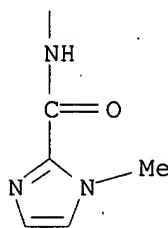
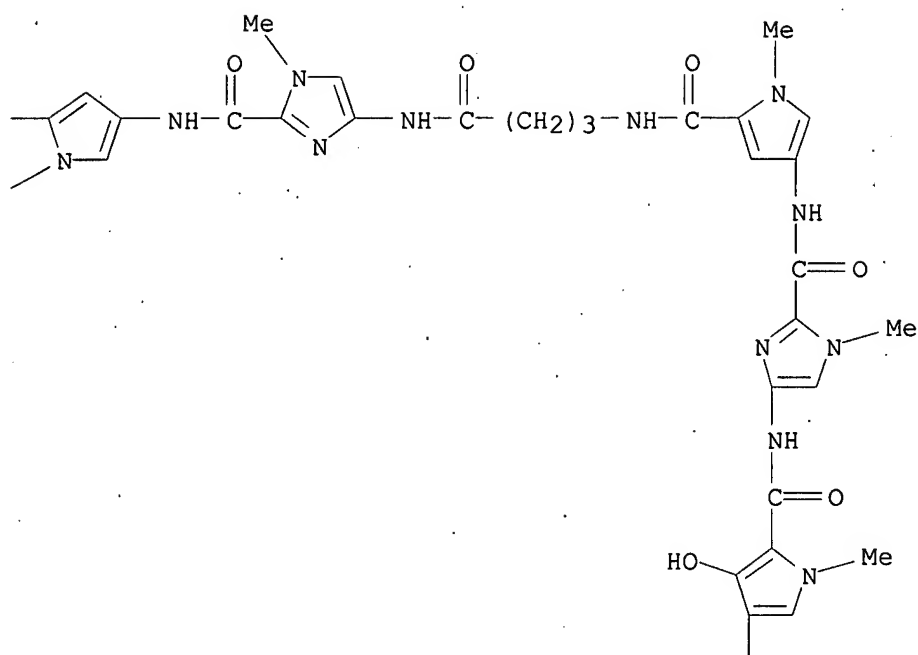


RN 212181-00-5 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

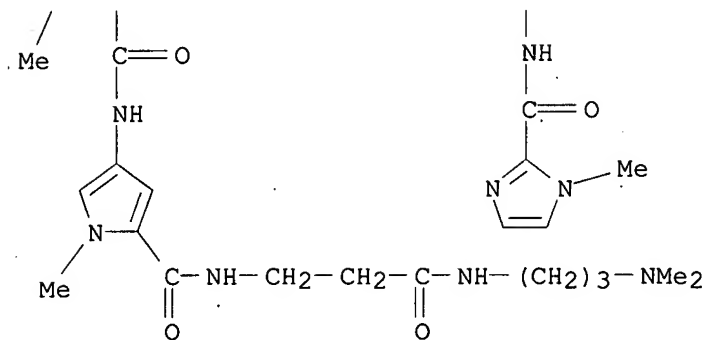
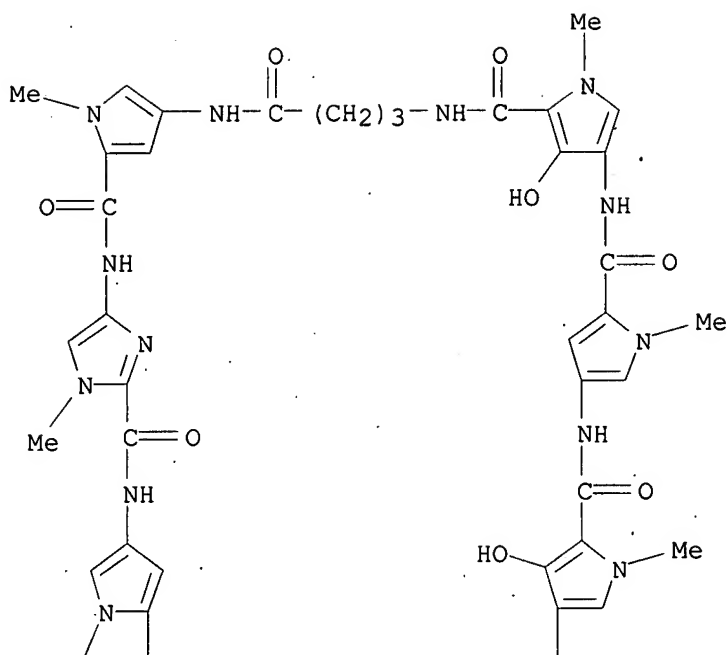
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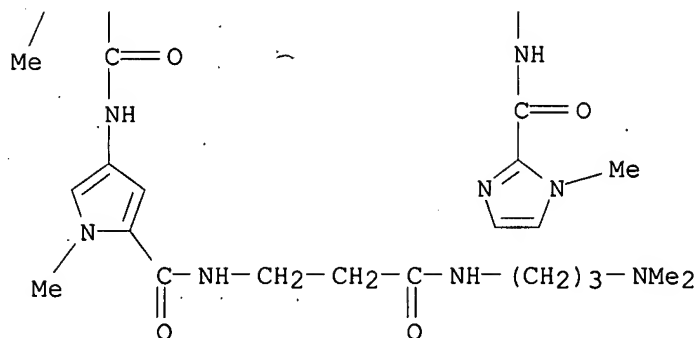
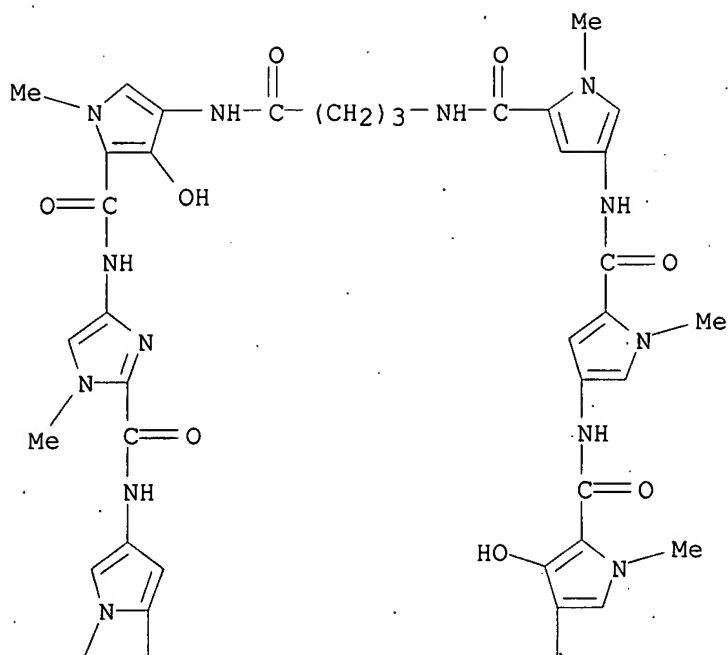


RN 212181-04-9 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

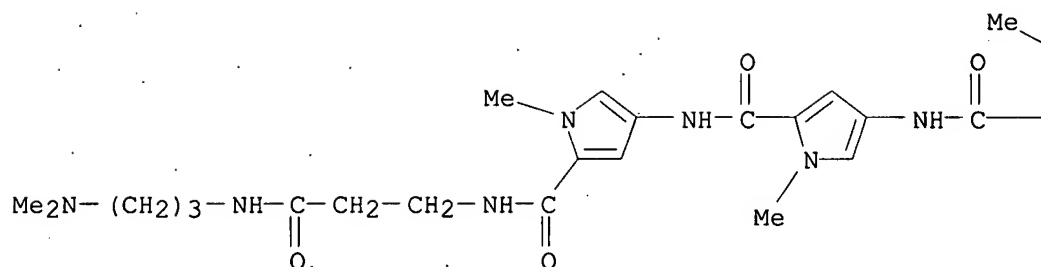


RN 212181-09-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

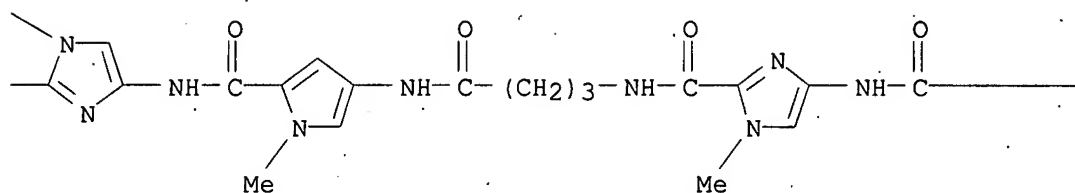


RN 212181-13-0 CAPLUS  
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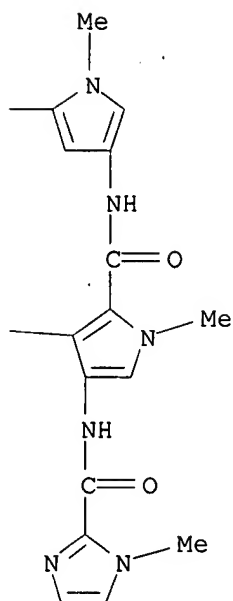


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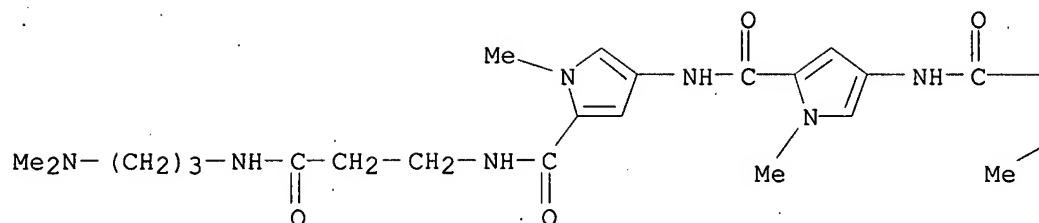
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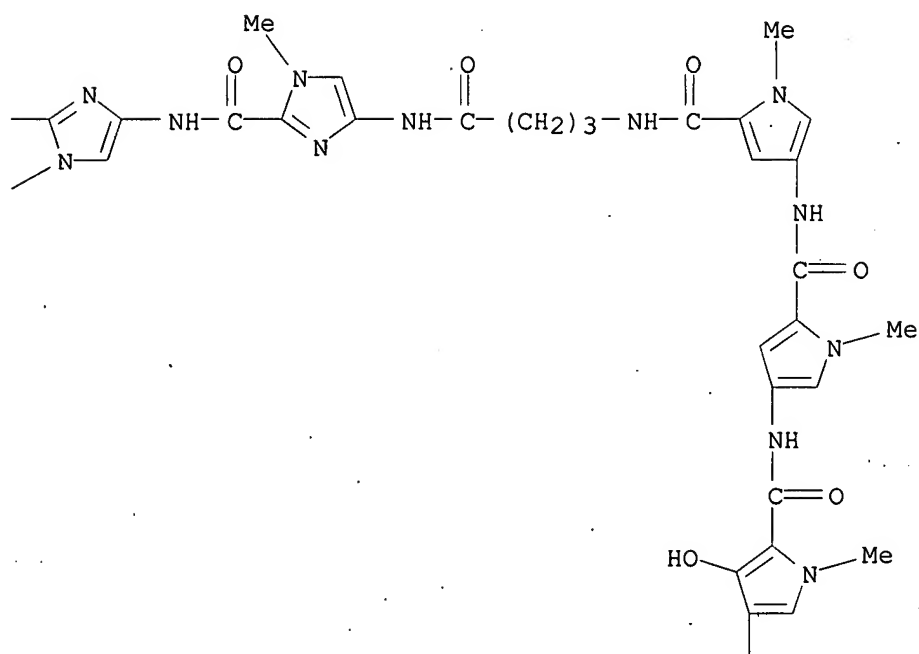


RN 212181-15-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

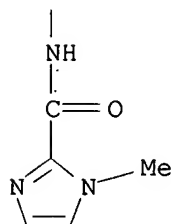
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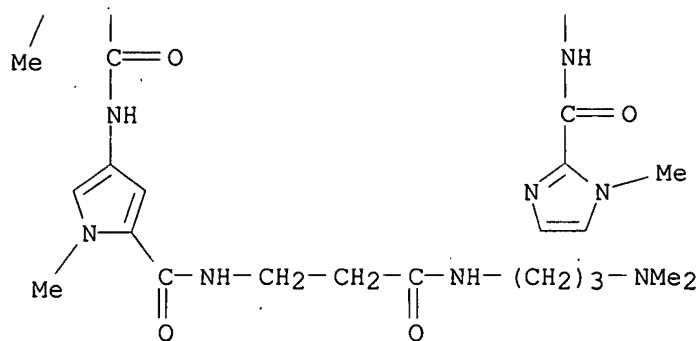
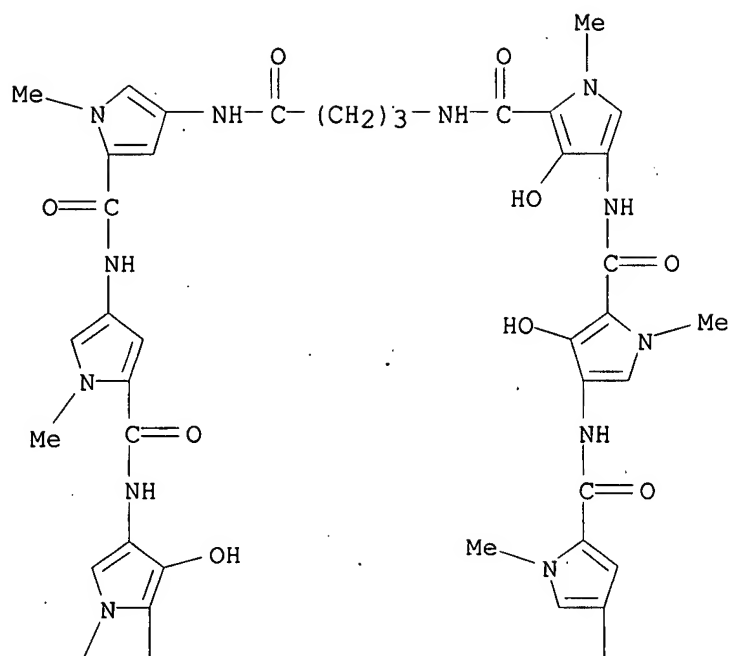
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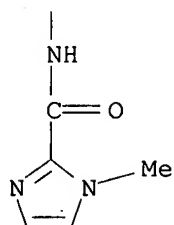
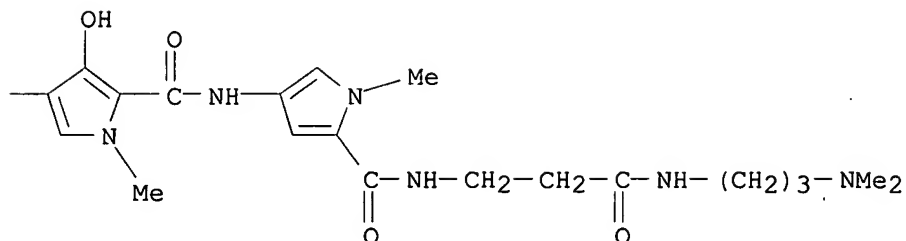
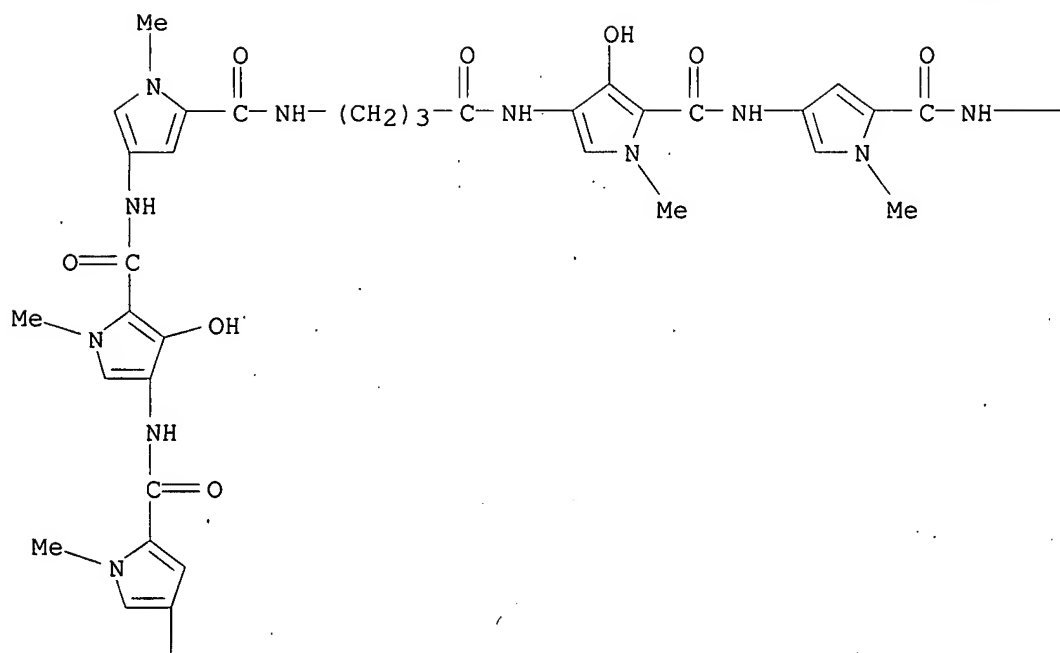


RN 212181-16-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]prolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)  
 (CA INDEX NAME)

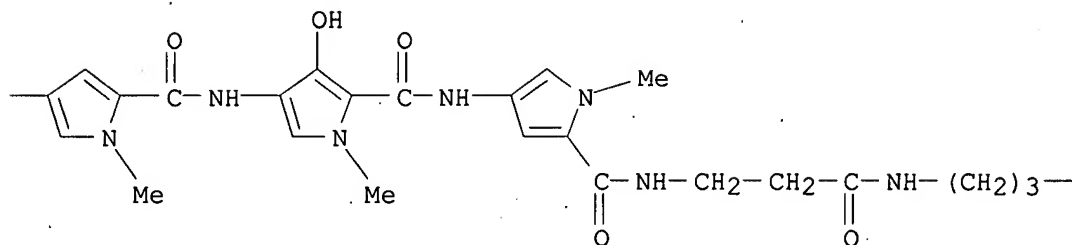
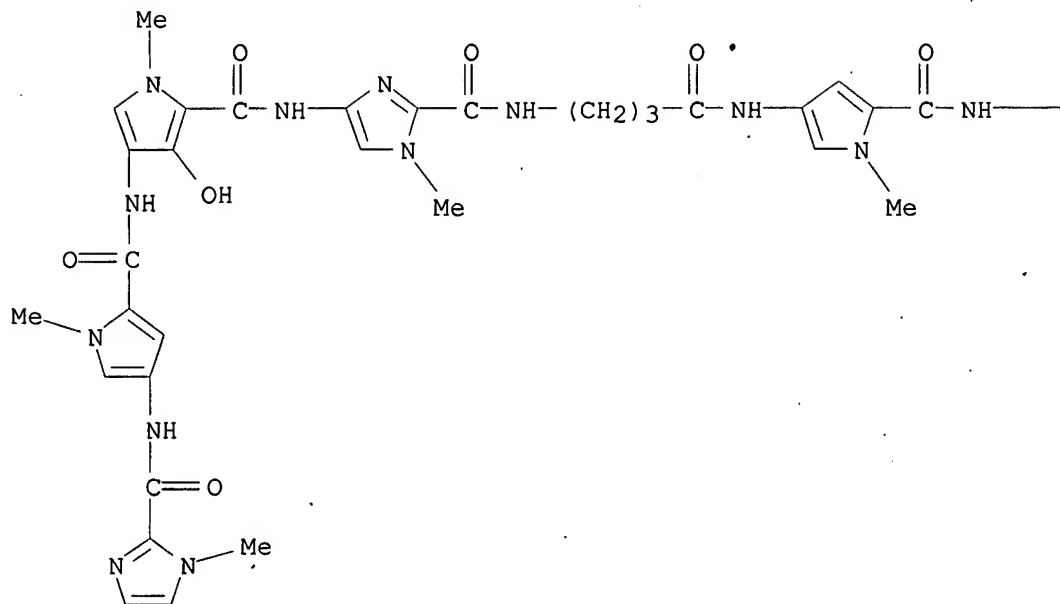


RN 212181-18-5 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]]- (9CI) (CA INDEX NAME)



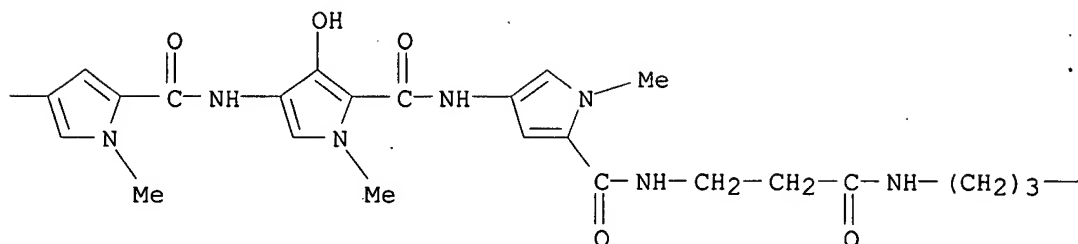
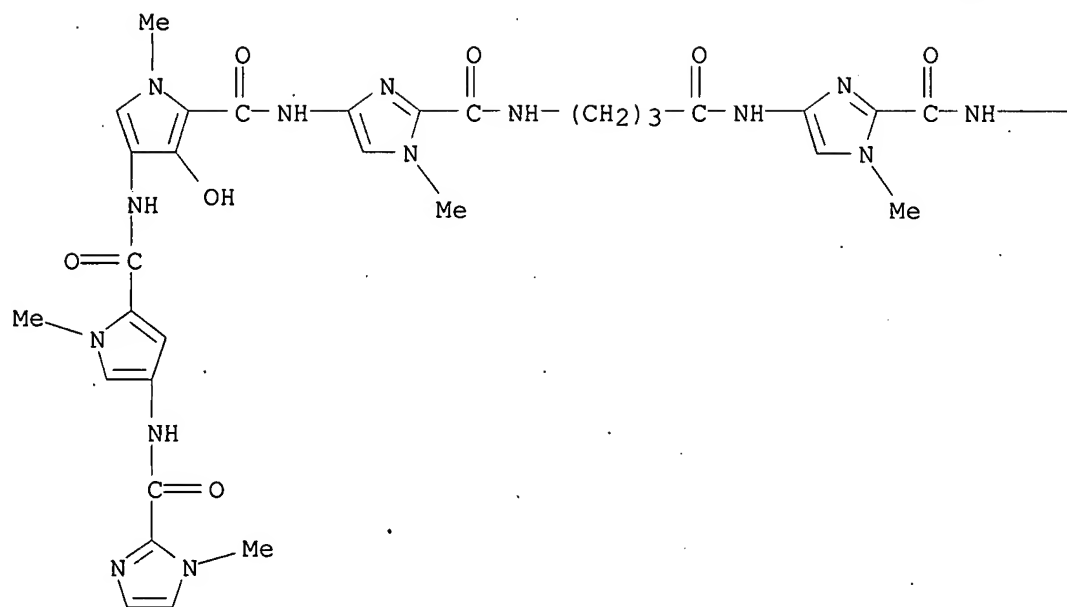


RN 212181-20-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

— NMe<sub>2</sub>

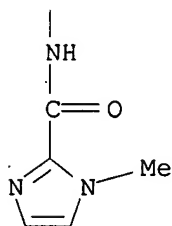
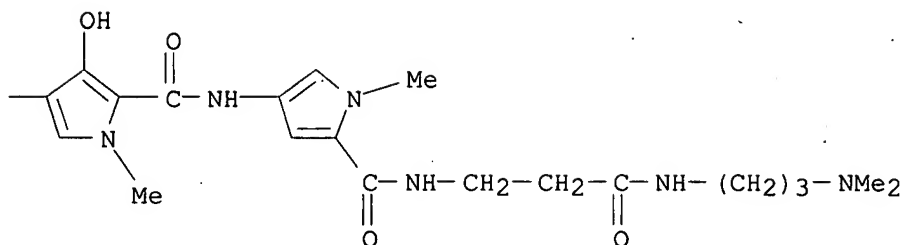
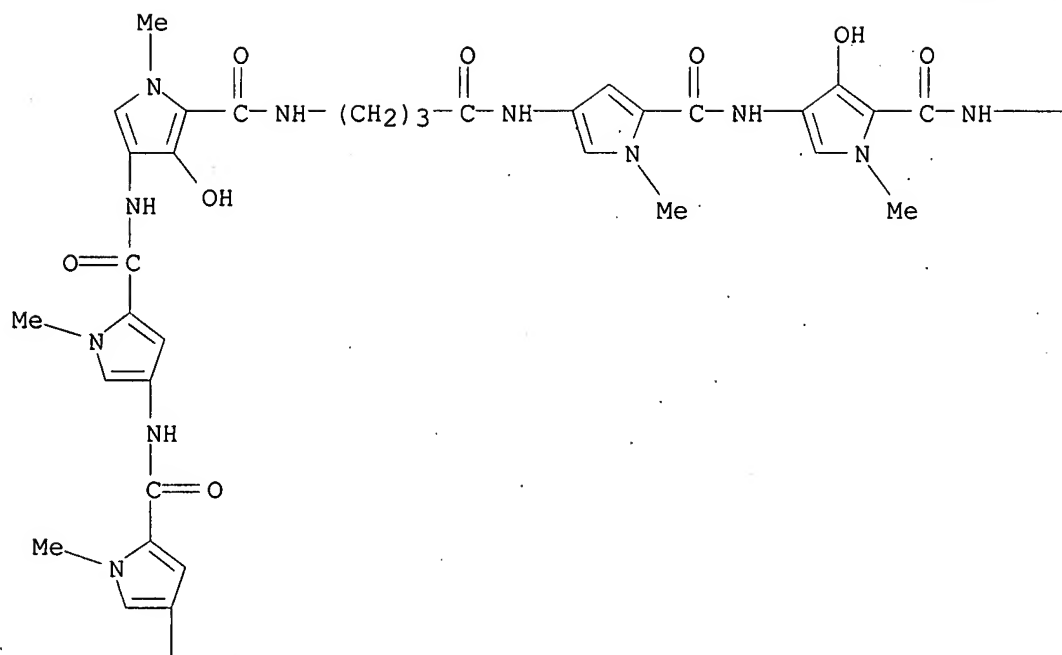
RN 212181-22-1 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

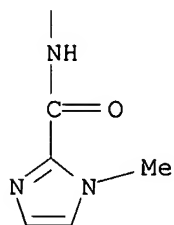
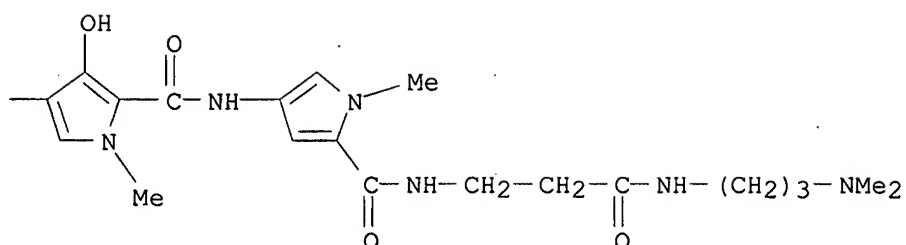
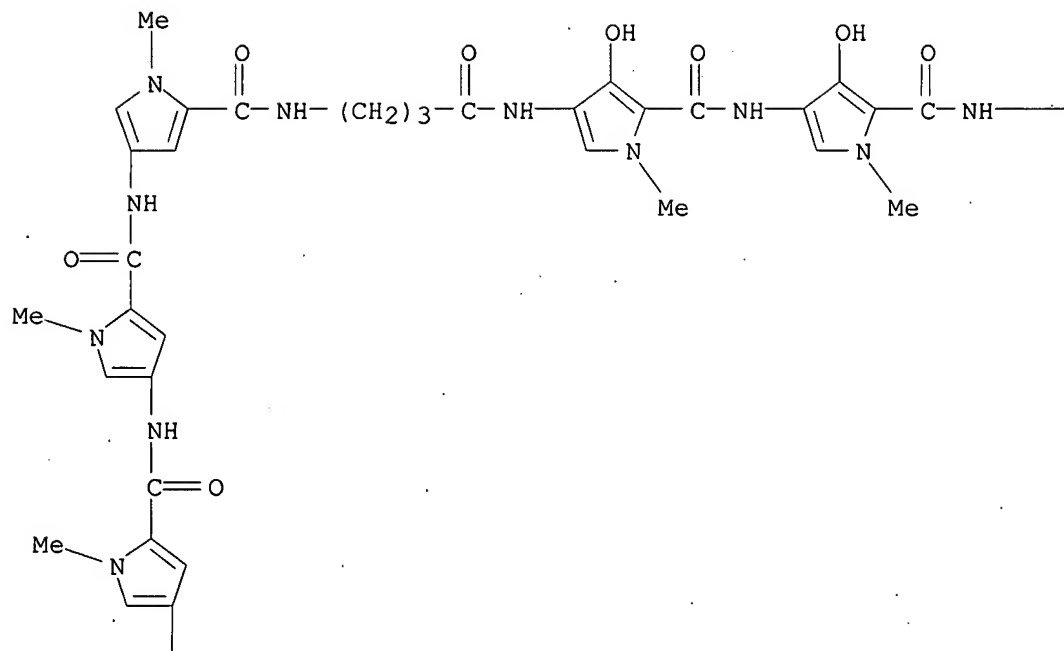
— NMe<sub>2</sub>

RN 212181-24-3 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

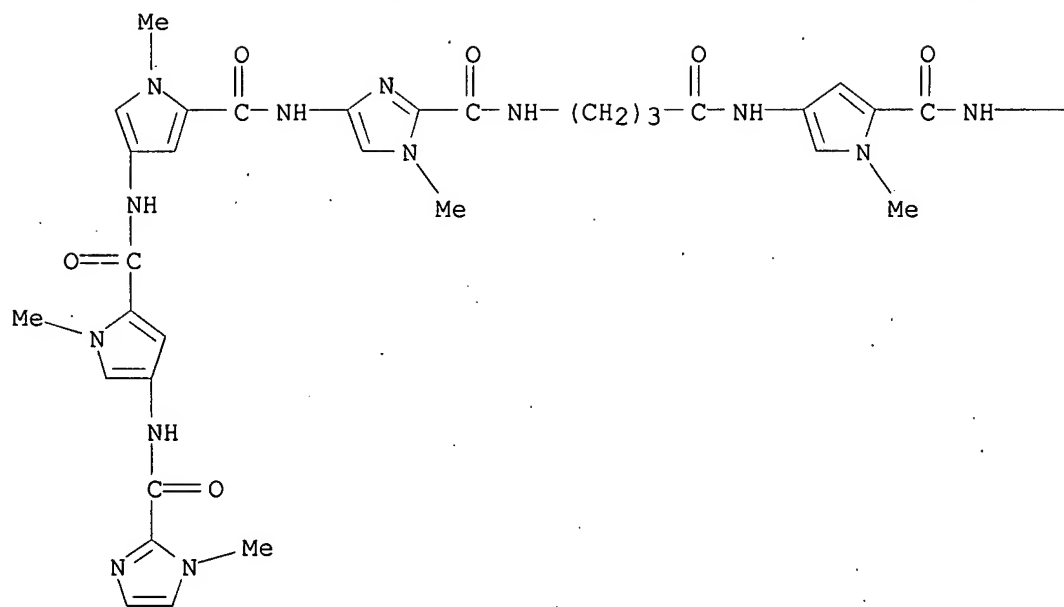


RN 212181-26-5 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

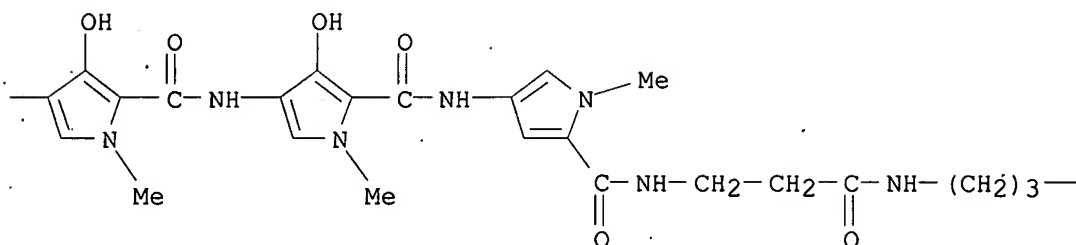


RN 212181-28-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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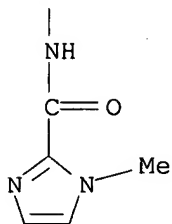
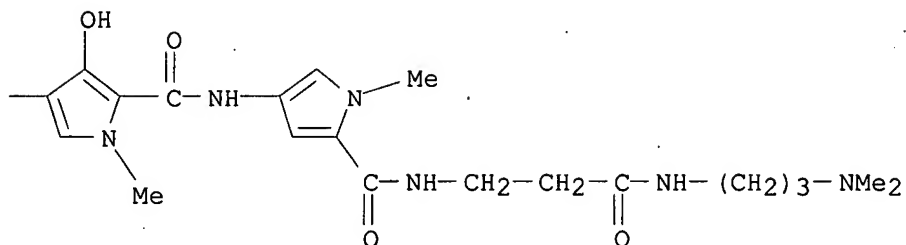
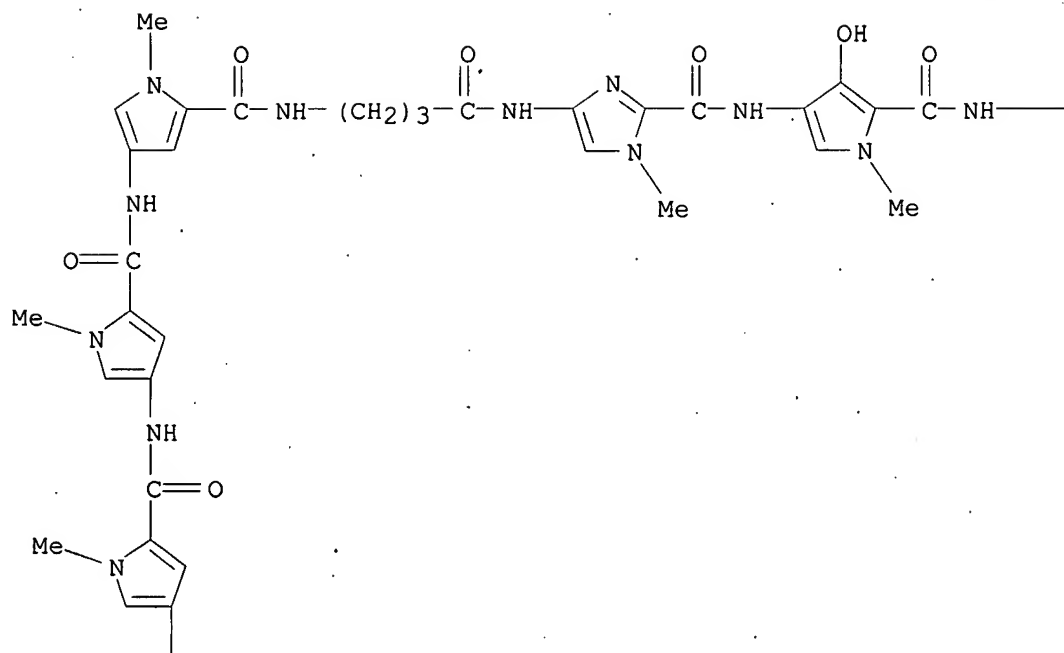
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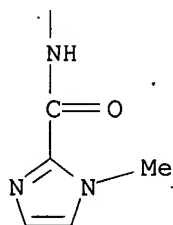
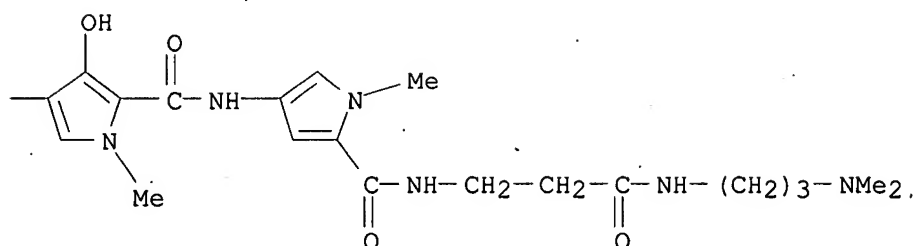
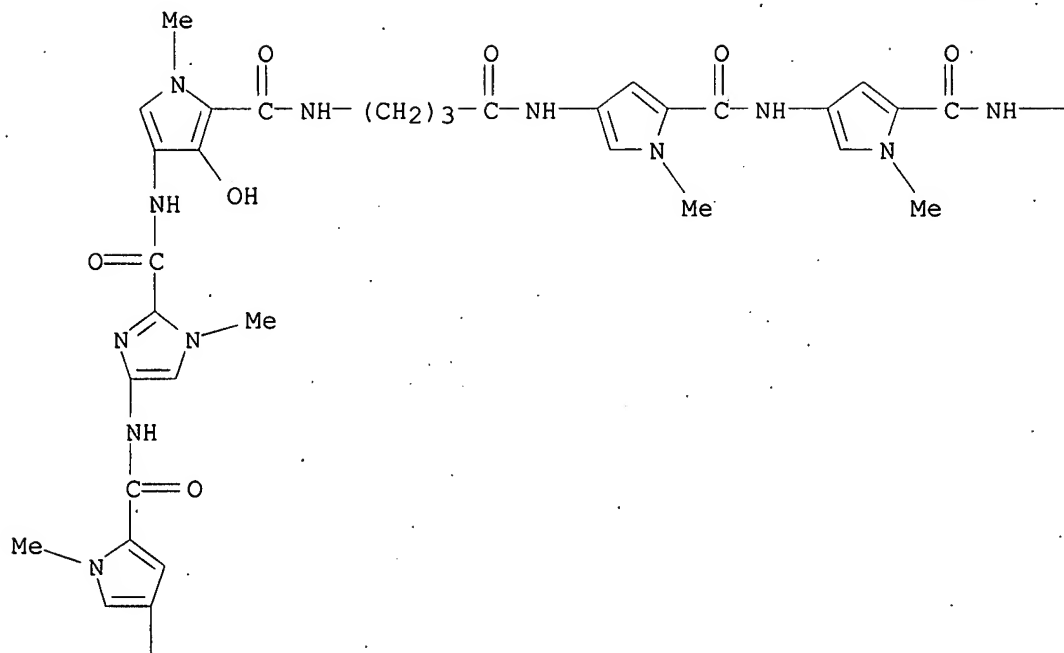
PAGE 1-C

— NMe<sub>2</sub>

RN 212181-30-1 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]]- (9CI) (CA INDEX NAME)

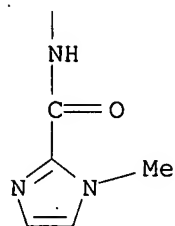
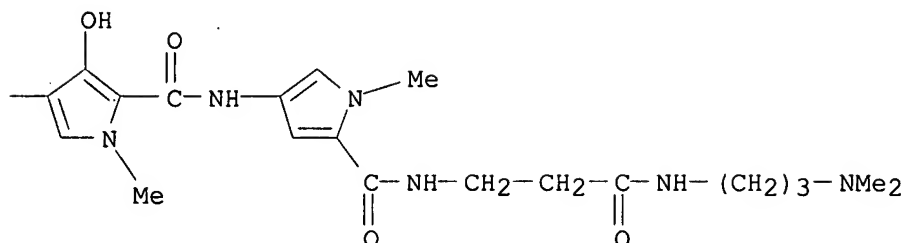
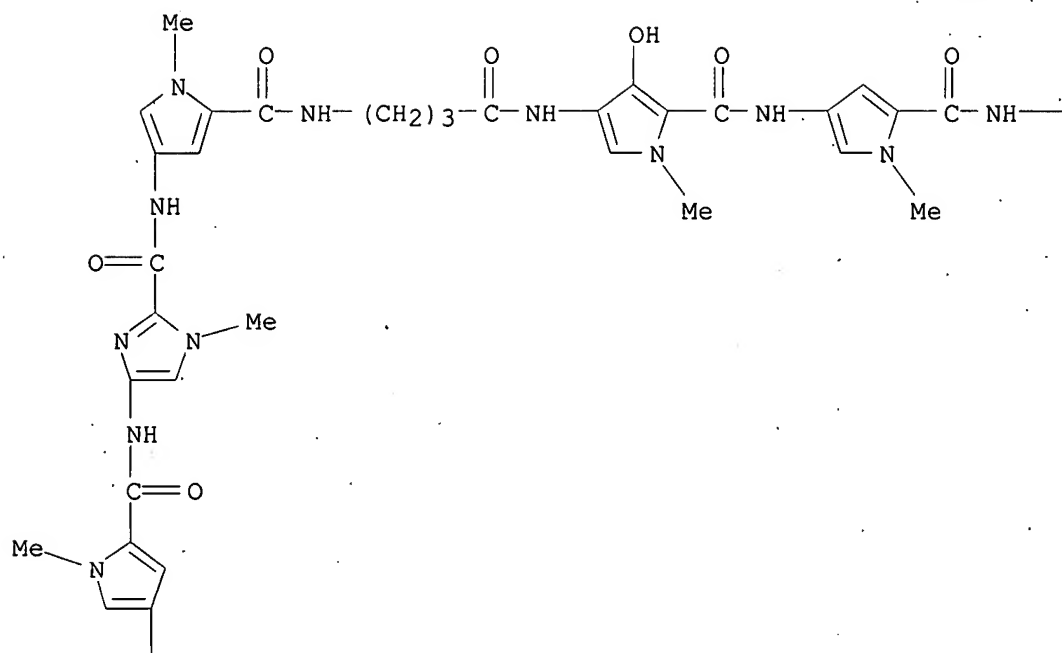


RN 212181-32-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]]- (9CI) (CA INDEX NAME)



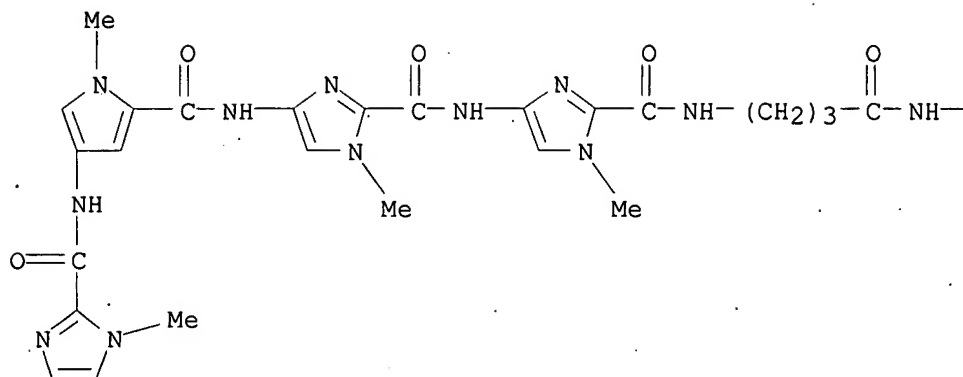
RN 212181-33-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]]- (9CI) (CA INDEX NAME).



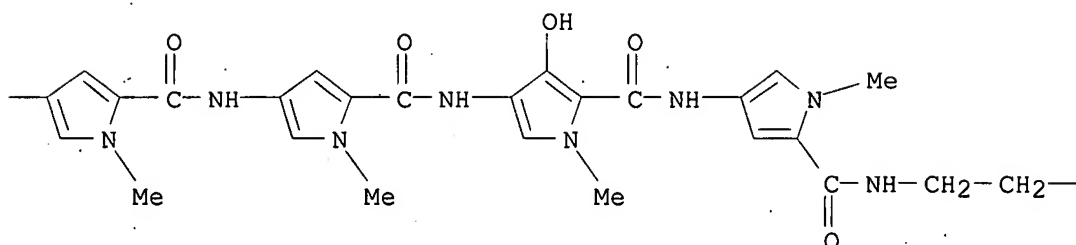


RN 212181-34-5 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

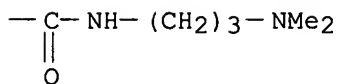
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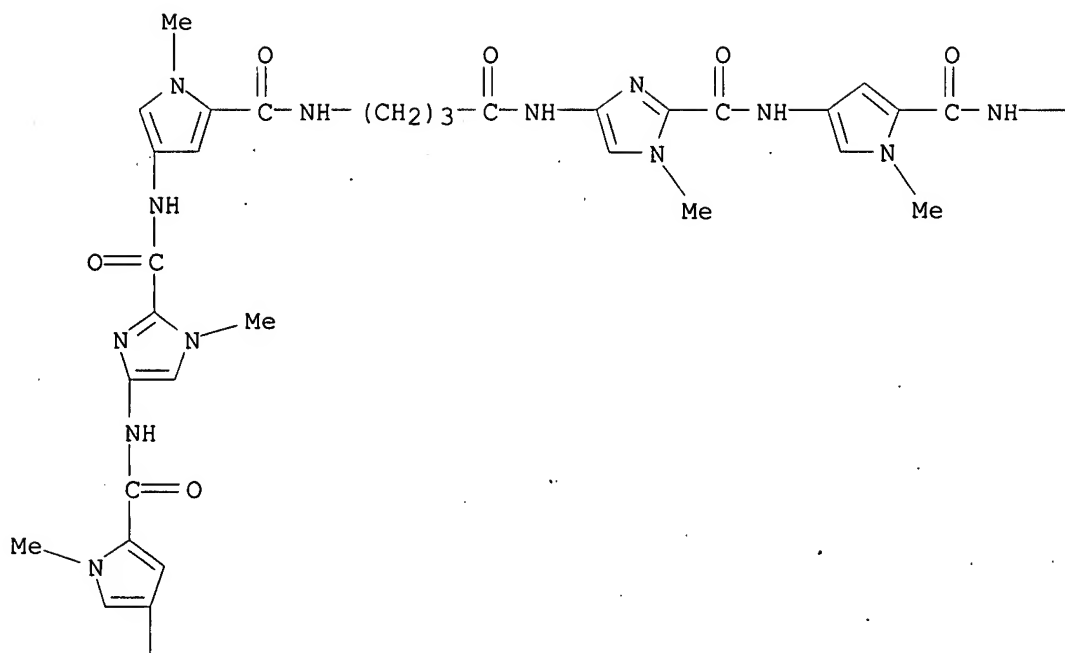


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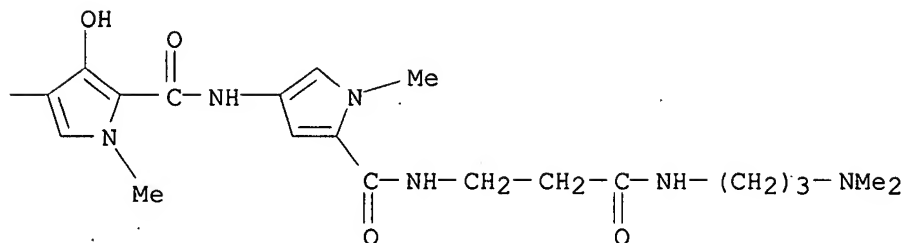


RN 212181-35-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

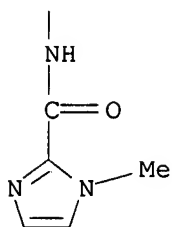
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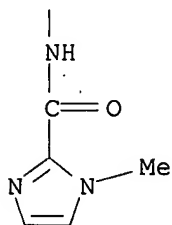
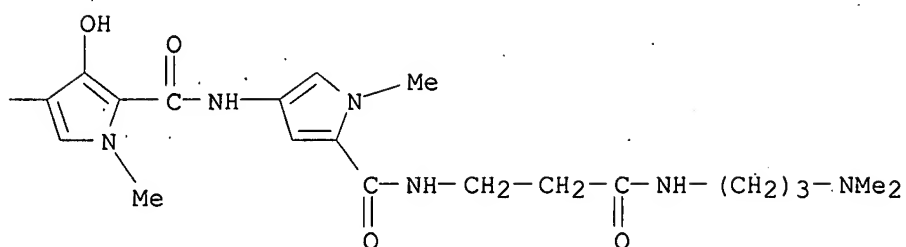
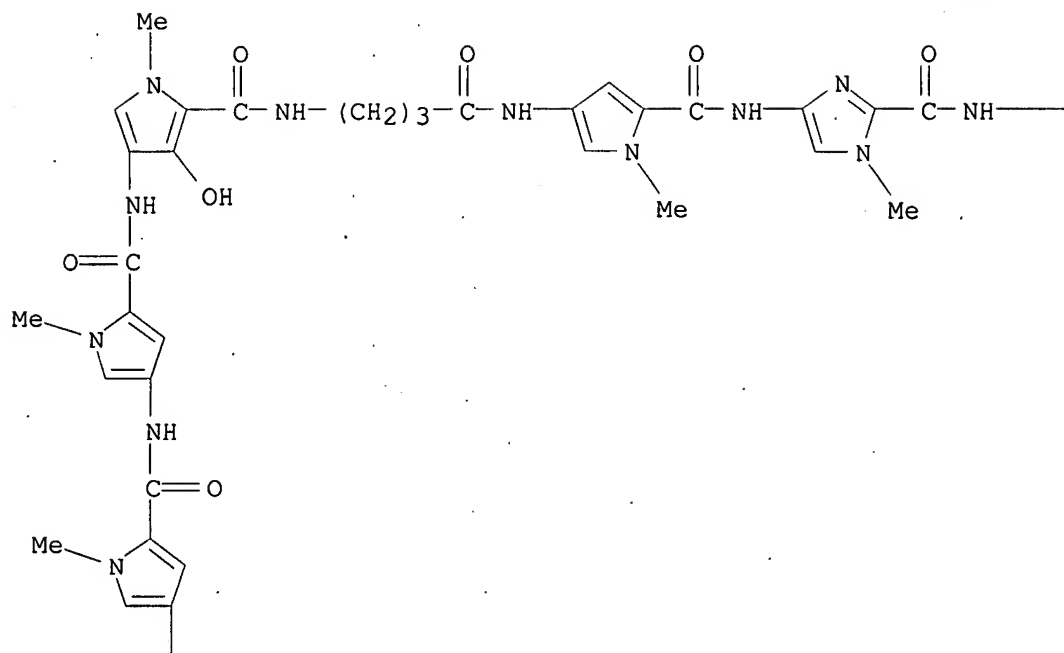
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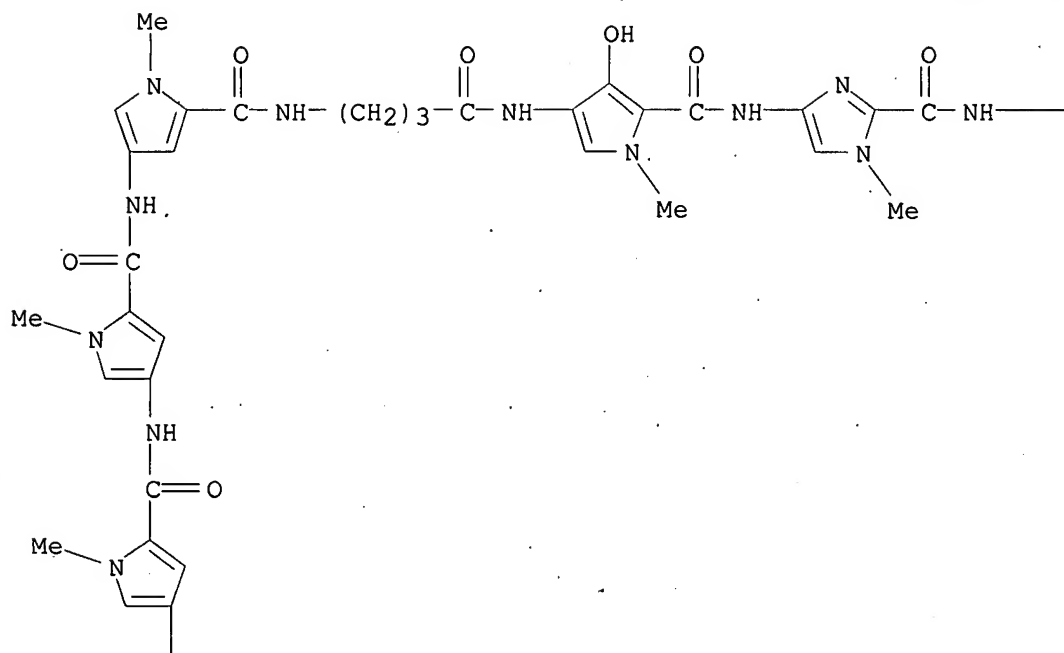


RN 212181-36-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

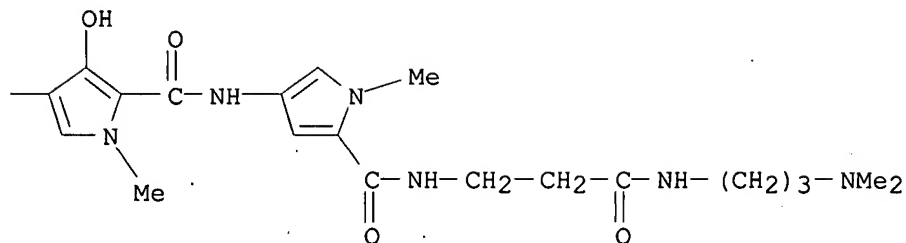


RN 212181-37-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

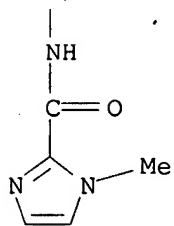
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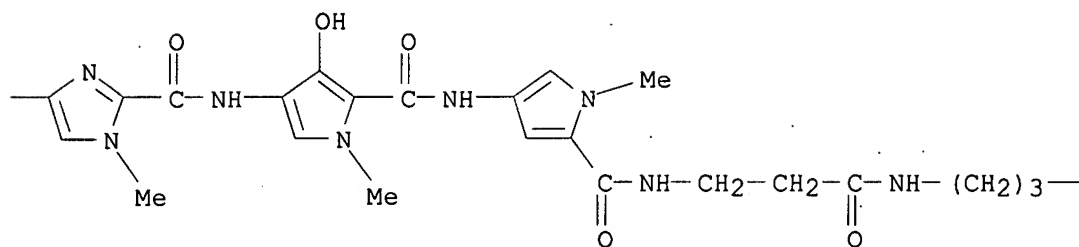
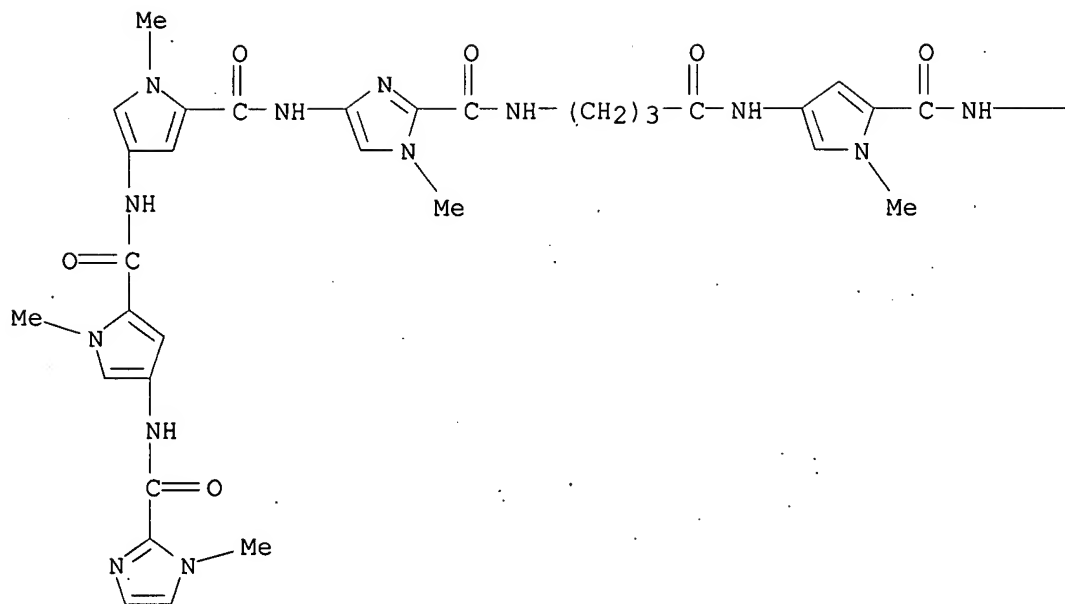
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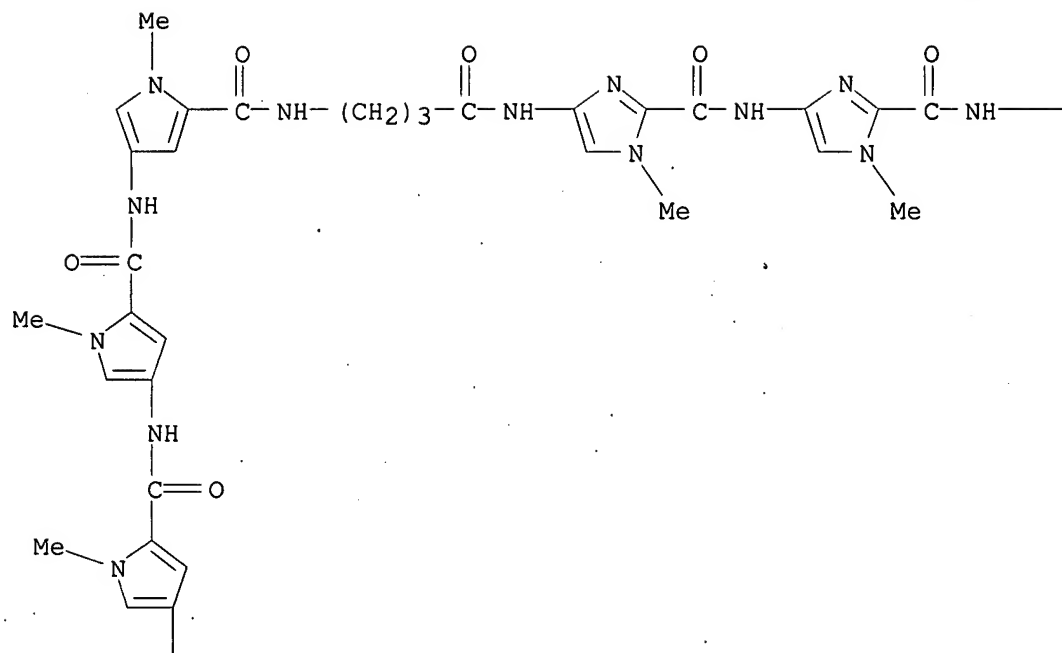
RN 212181-38-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

— NMe<sub>2</sub>

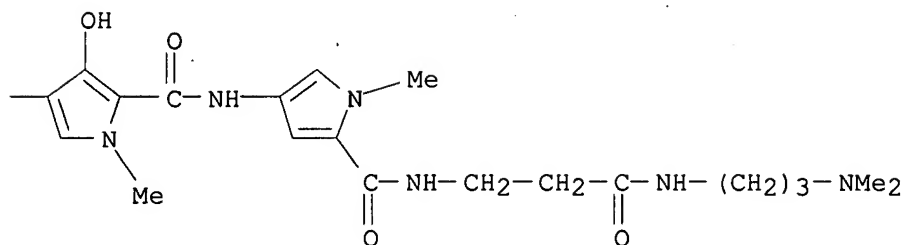
RN 212181-39-0 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradecahydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

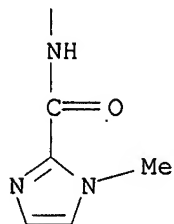
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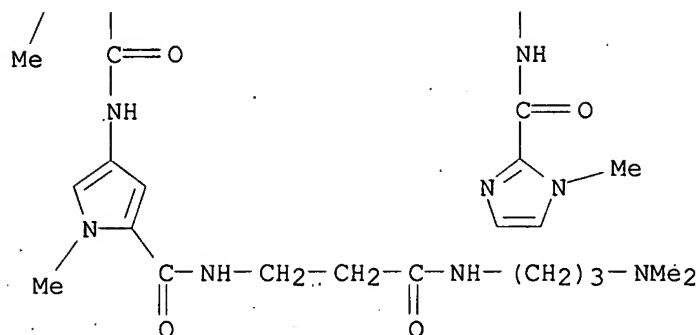
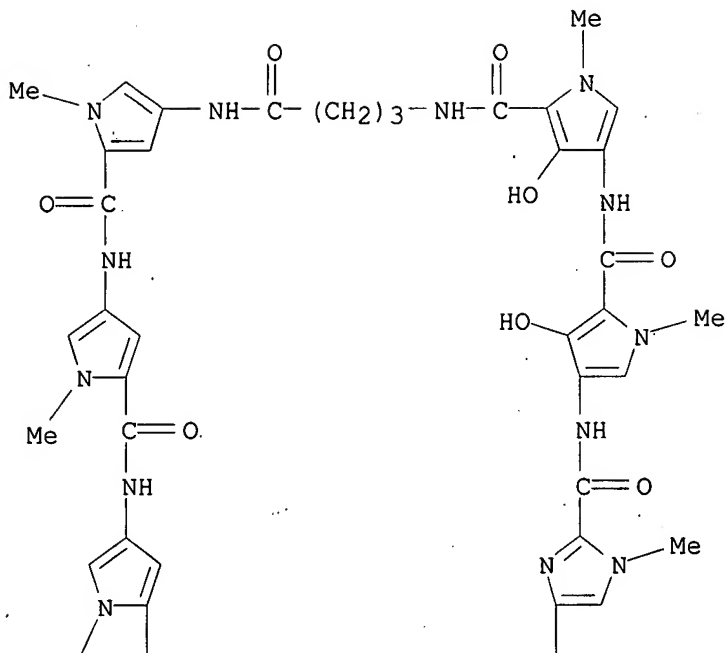
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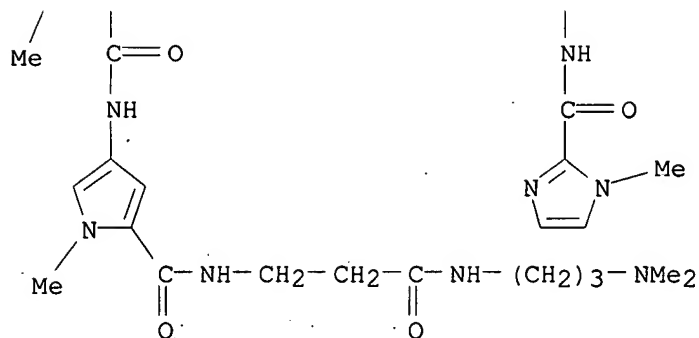
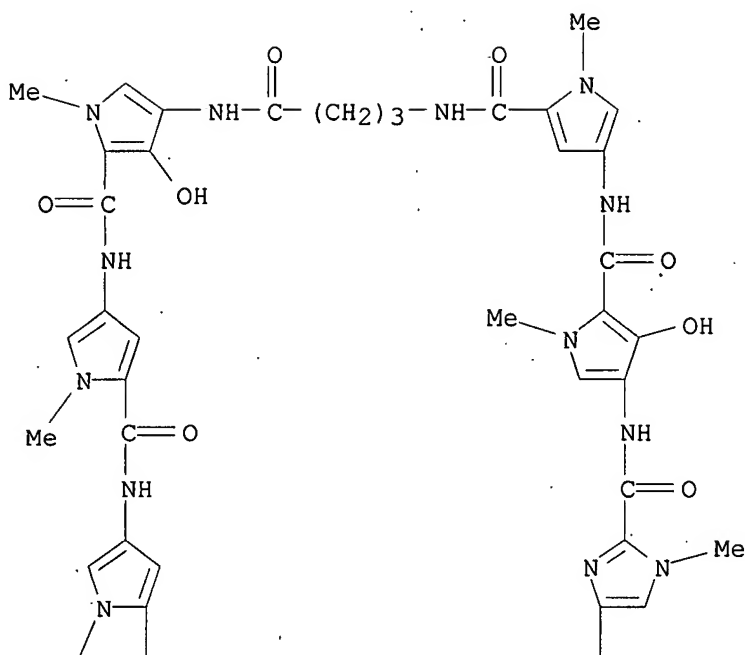


RN 212181-40-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

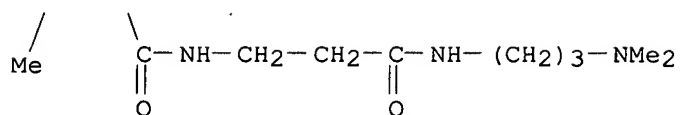
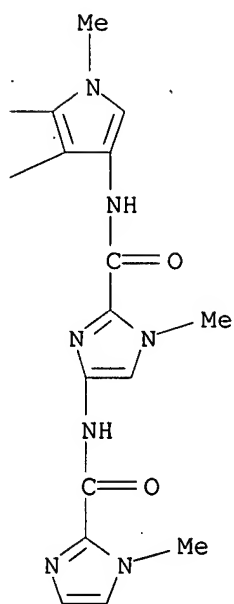
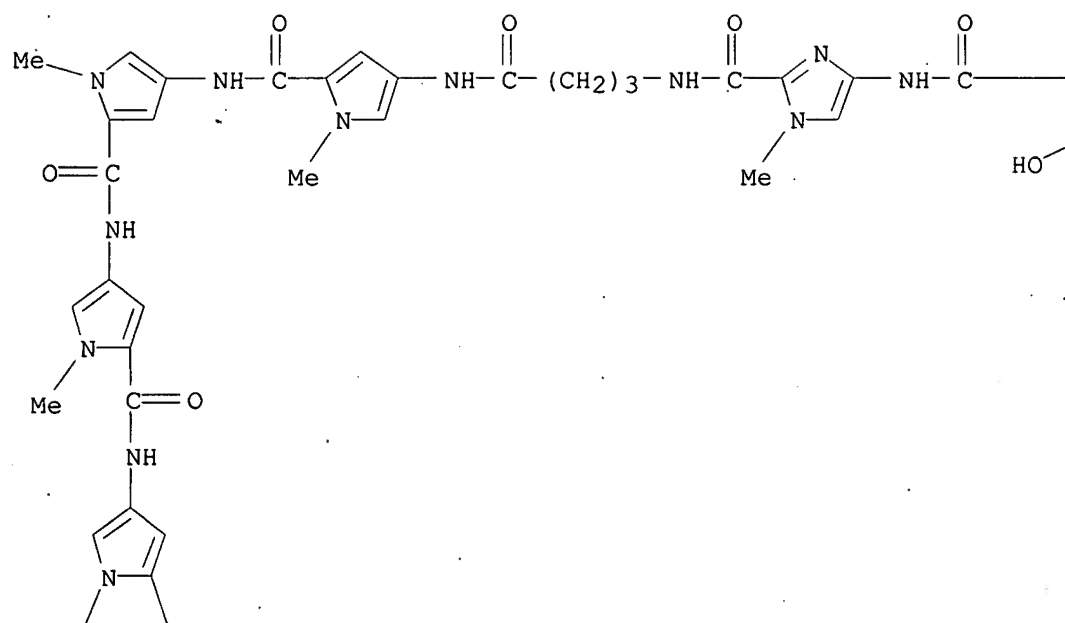


RN	212181-41-4	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	



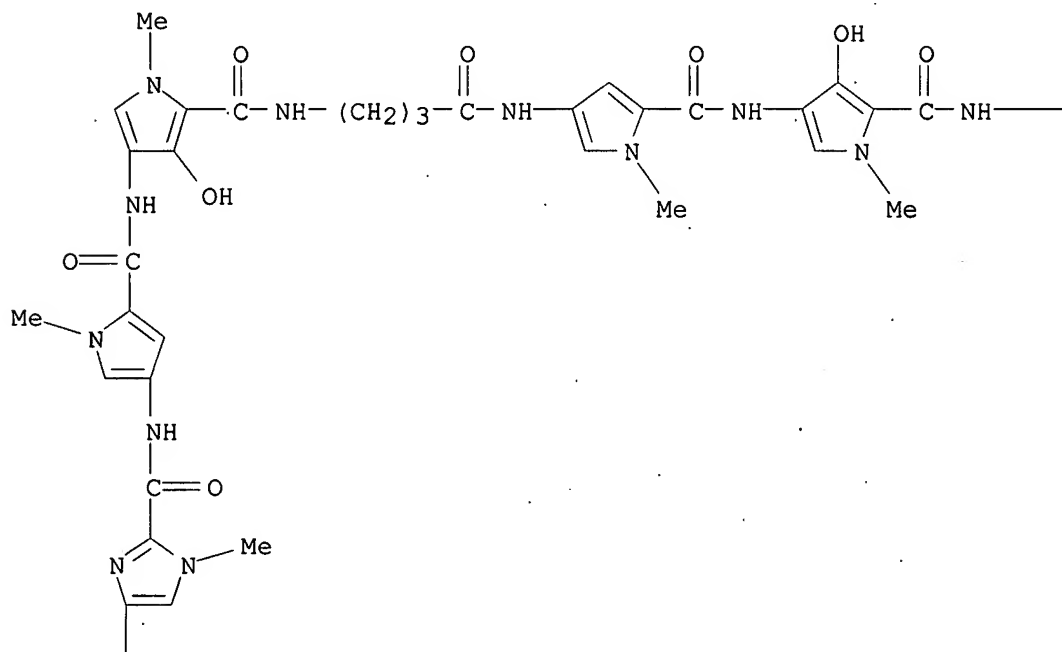


RN 212181-42-5 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI). (CA INDEX NAME)

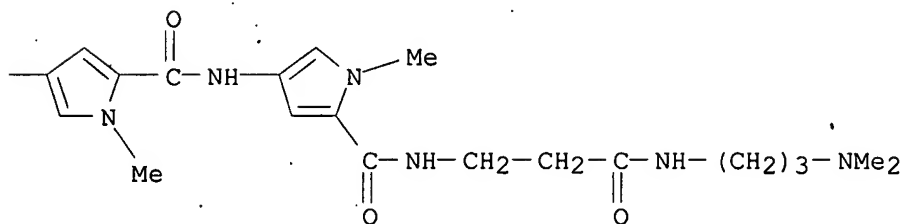


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)  
(CA INDEX NAME)

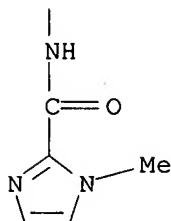
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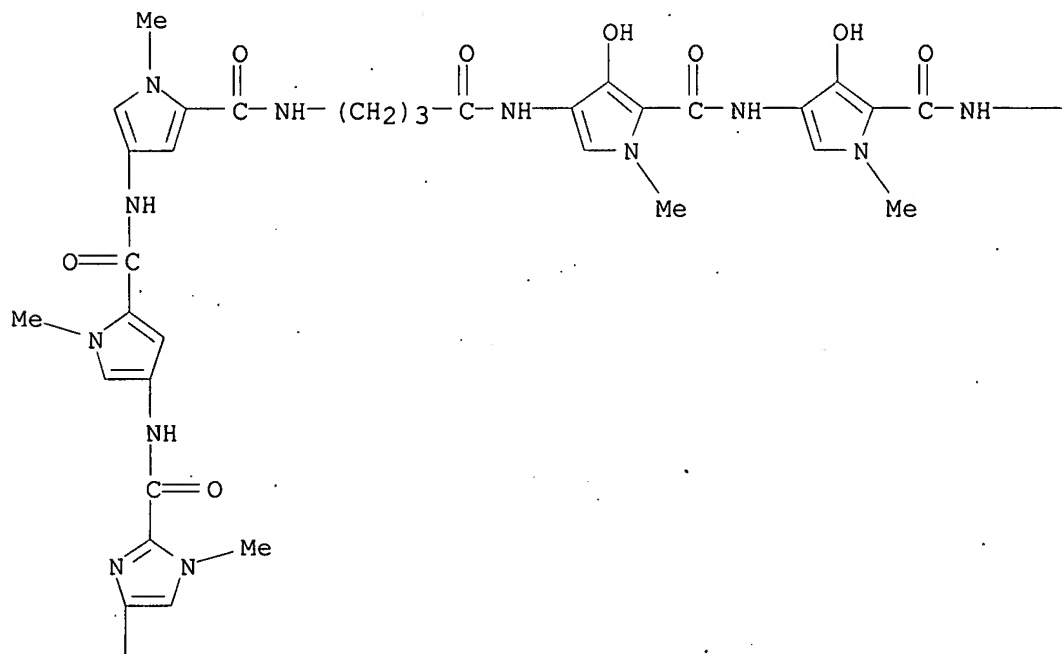


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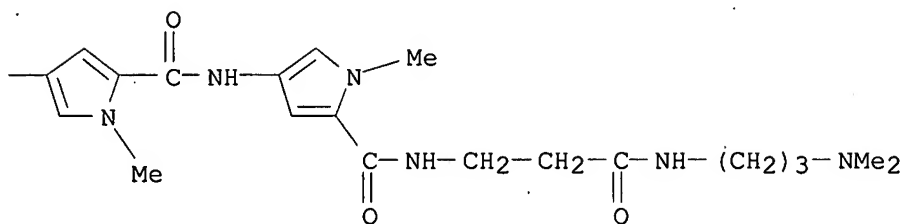


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

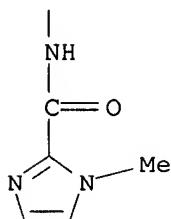
PAGE 1-A



PAGE 1-B

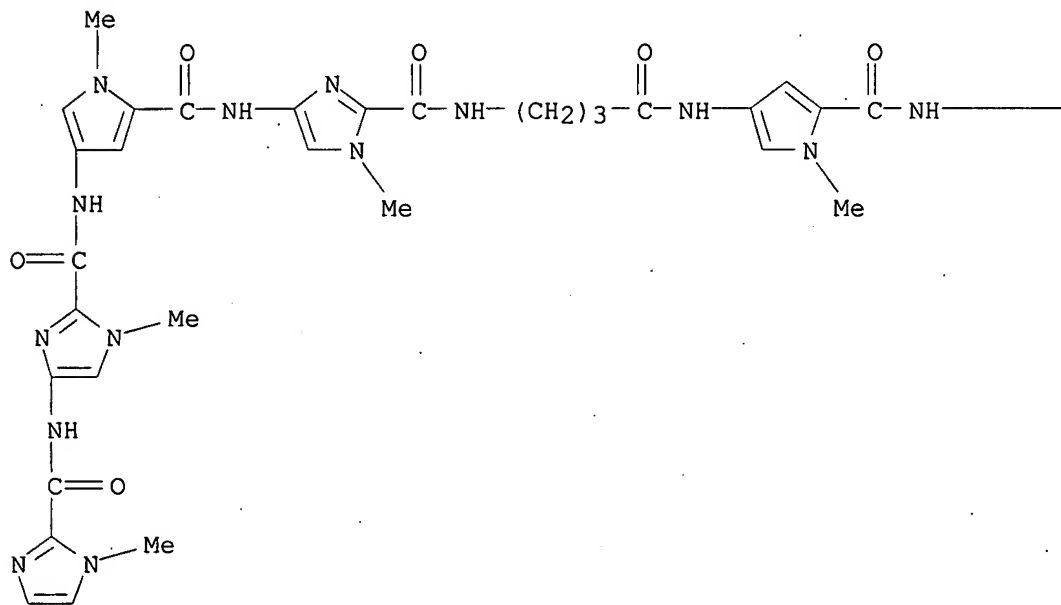


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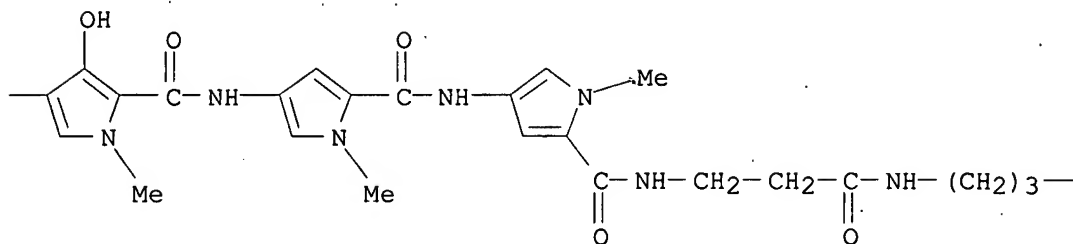


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)  
(CA INDEX NAME)

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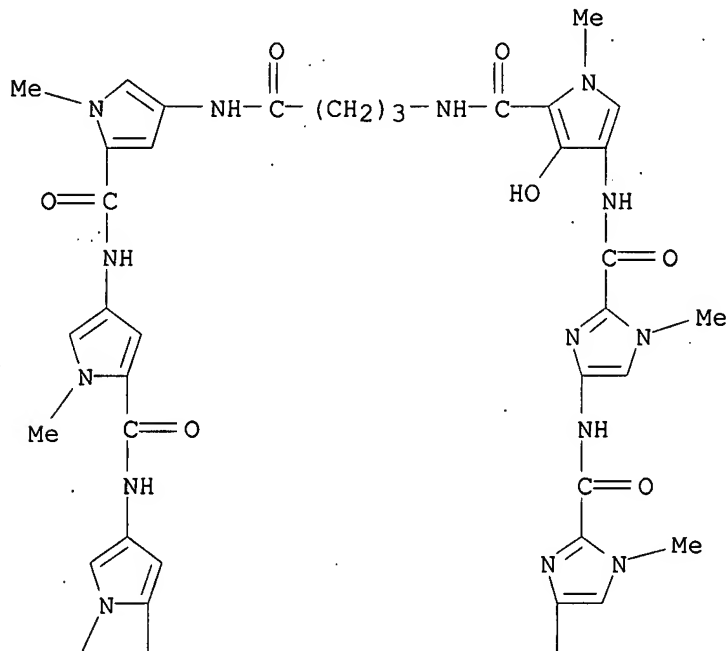
PAGE 1-C

— NMe<sub>2</sub>

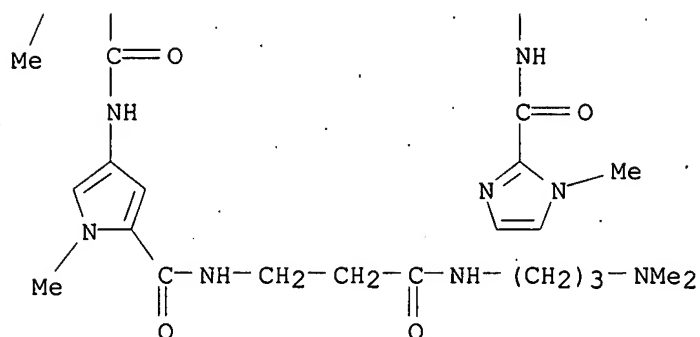
RN 212181-46-9 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-

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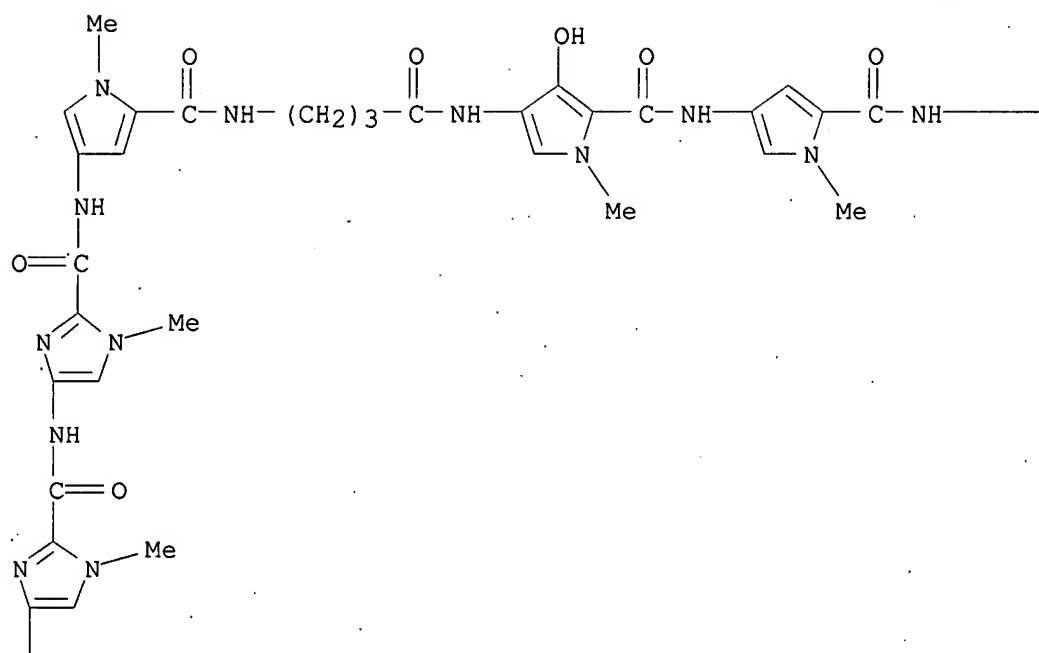


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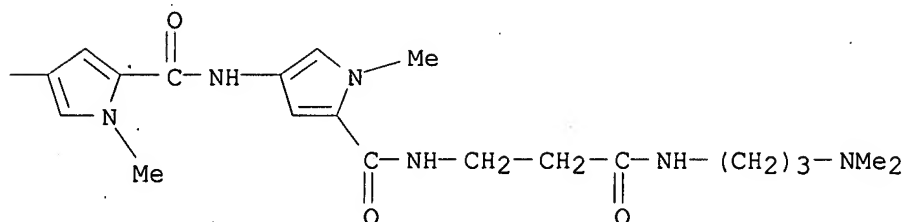


CN    β-Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]prolyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]]-(9CI)    (CA INDEX NAME)

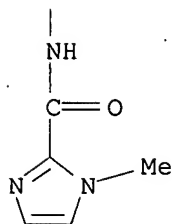
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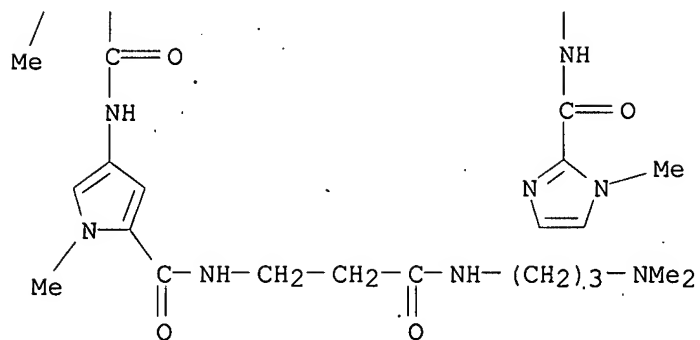
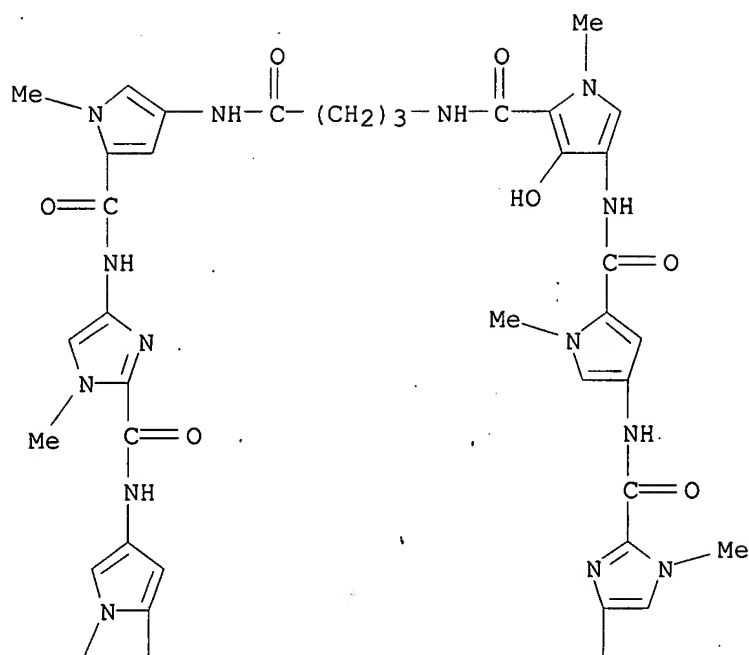
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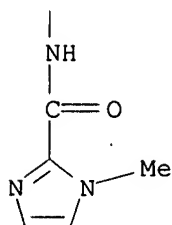
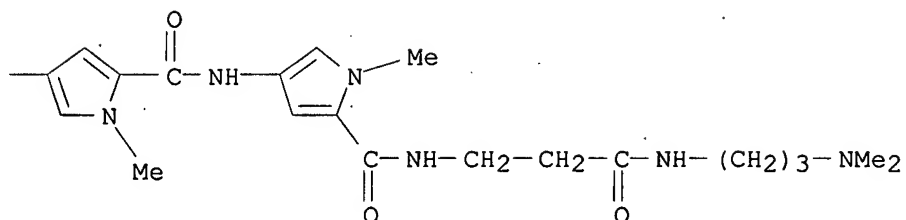
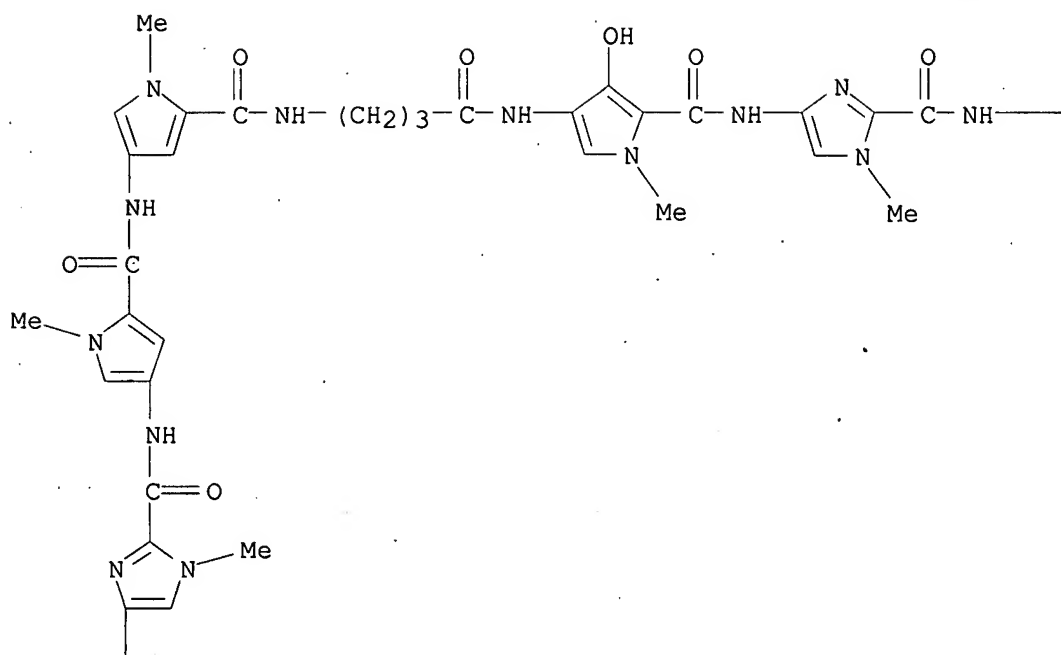
RN 212181-48-1 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]prolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



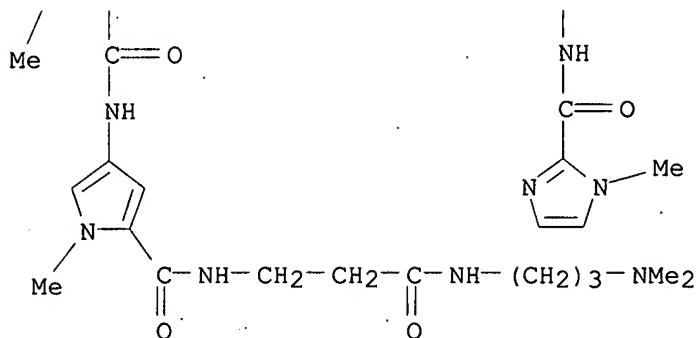
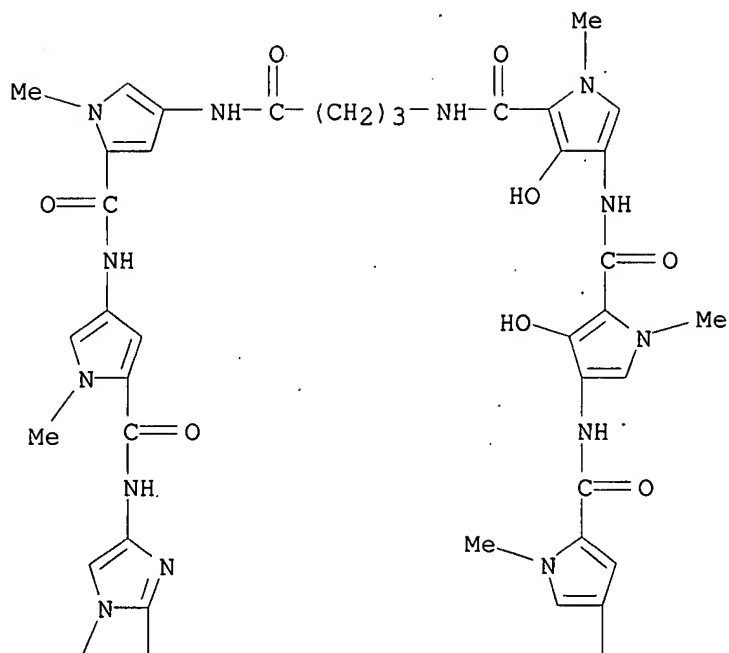
RN 212181-49-2 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)  
(CA INDEX NAME)

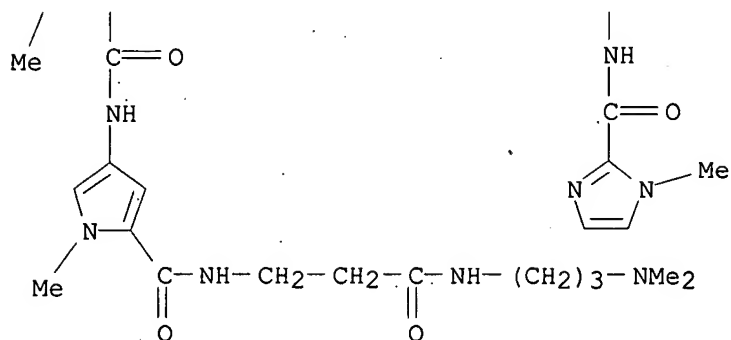
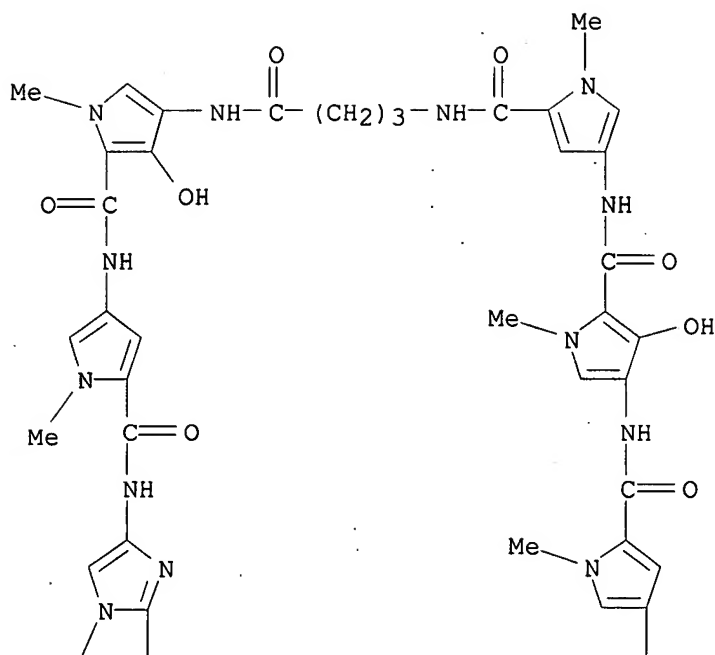




RN	212181-50-5	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]prolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	

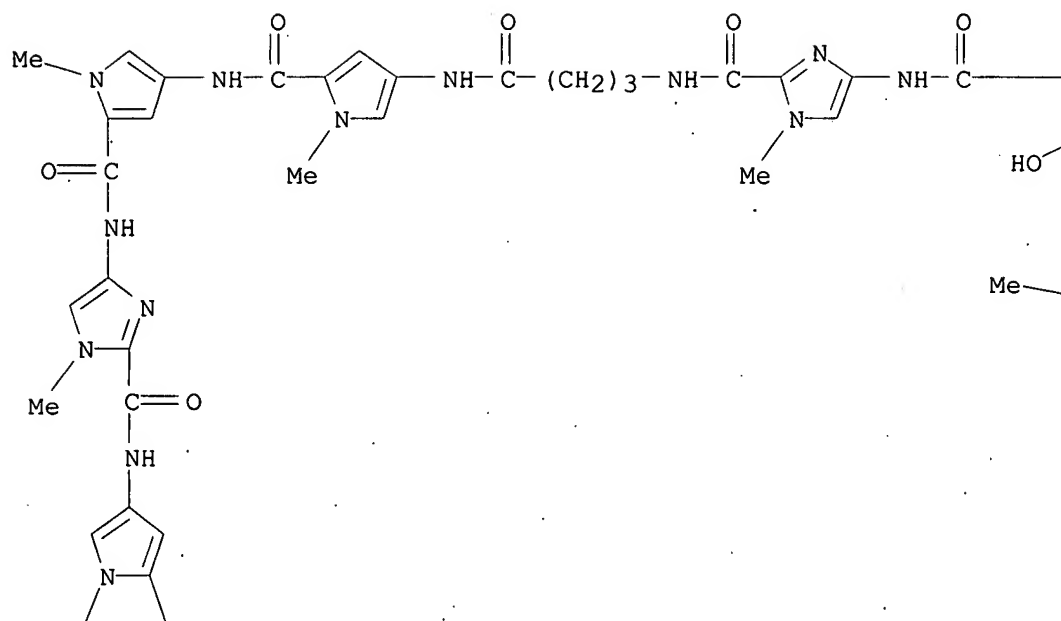


RN 212181-51-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

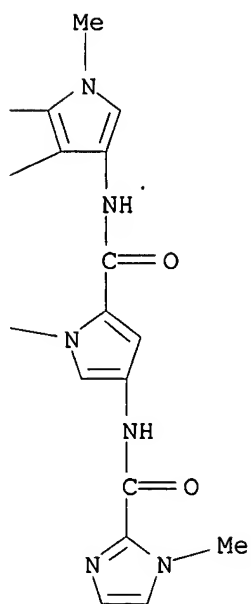


RN 212181-52-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl) carbonyl] amino]propyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

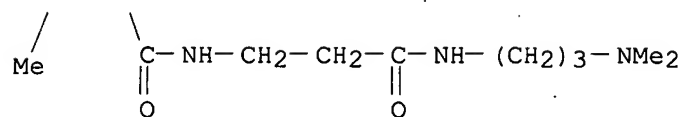
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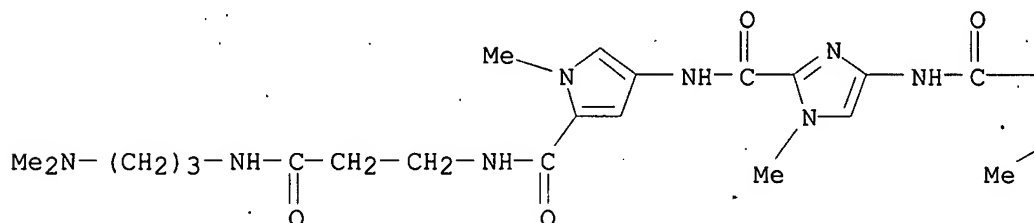


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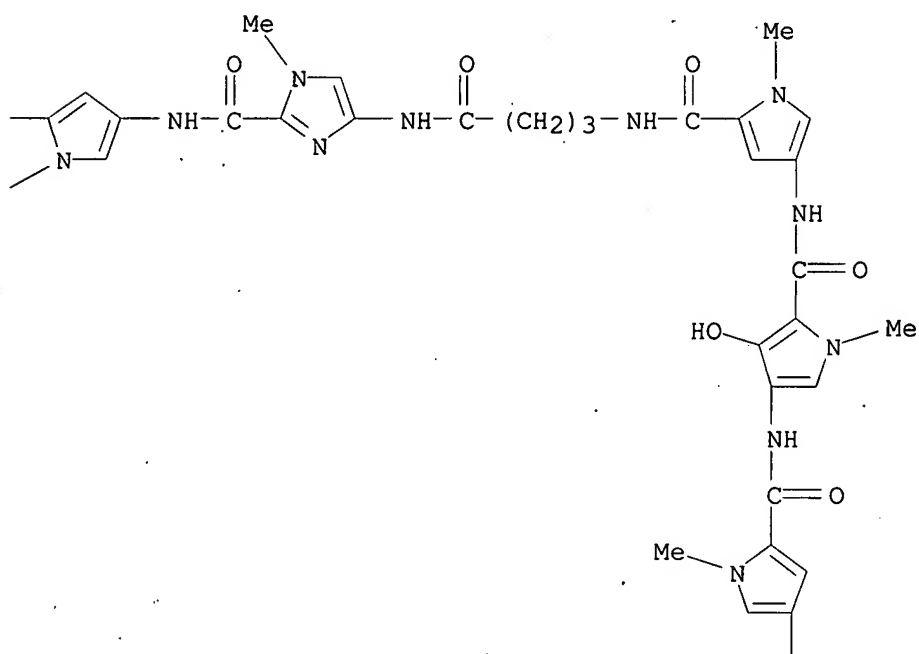


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

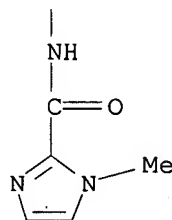
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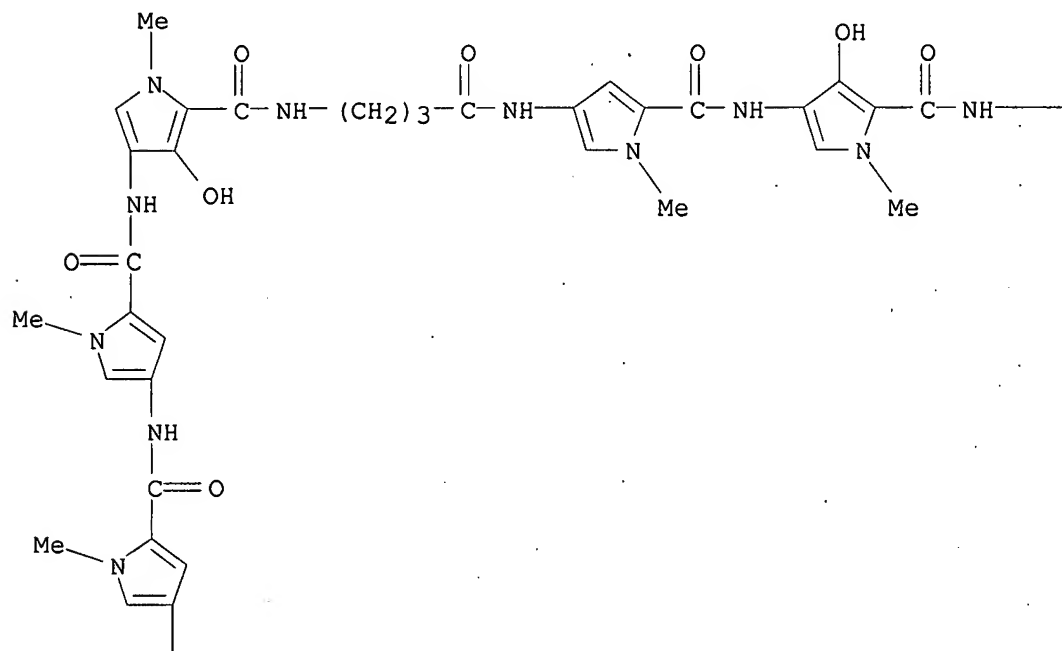


RN 212181-54-9 CAPLUS

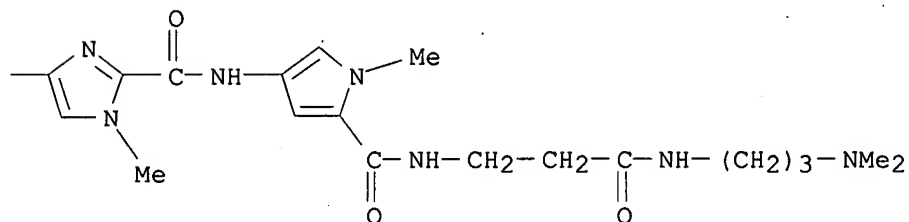
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-

imidazol-2-yl) carbonyl] amino] prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

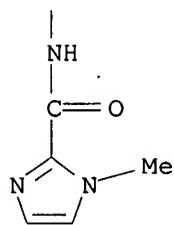
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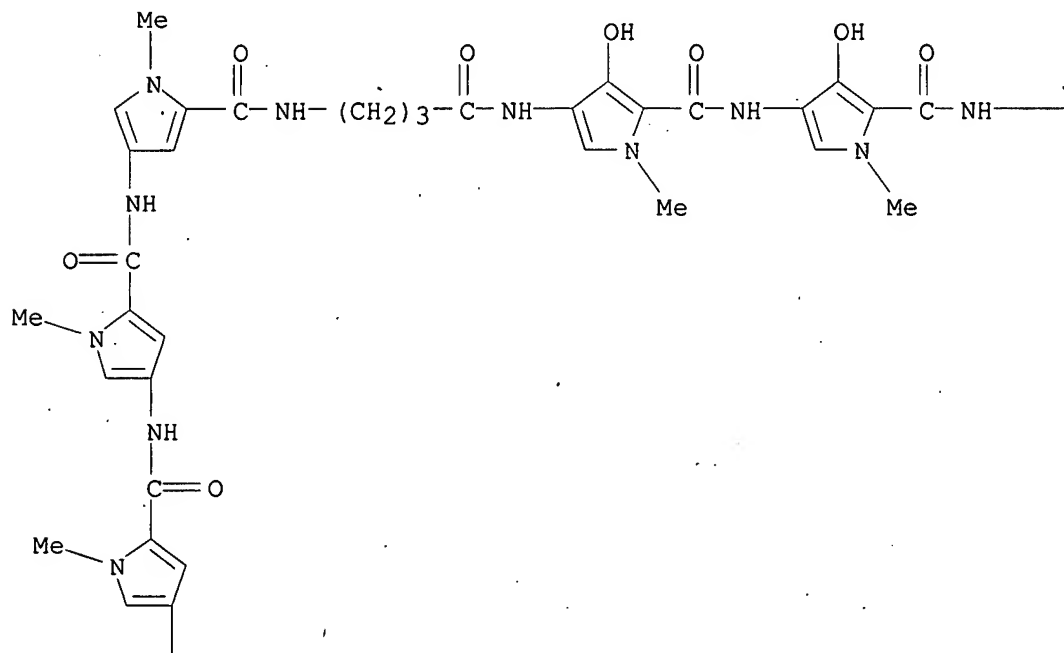
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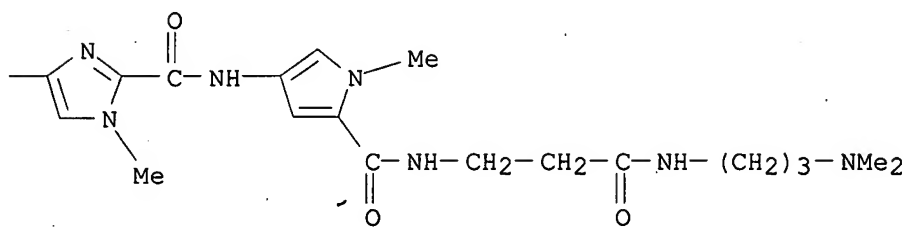
RN 212181-55-0 CAPLUS  
CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl) carbonyl] amino] prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-

4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

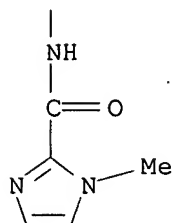
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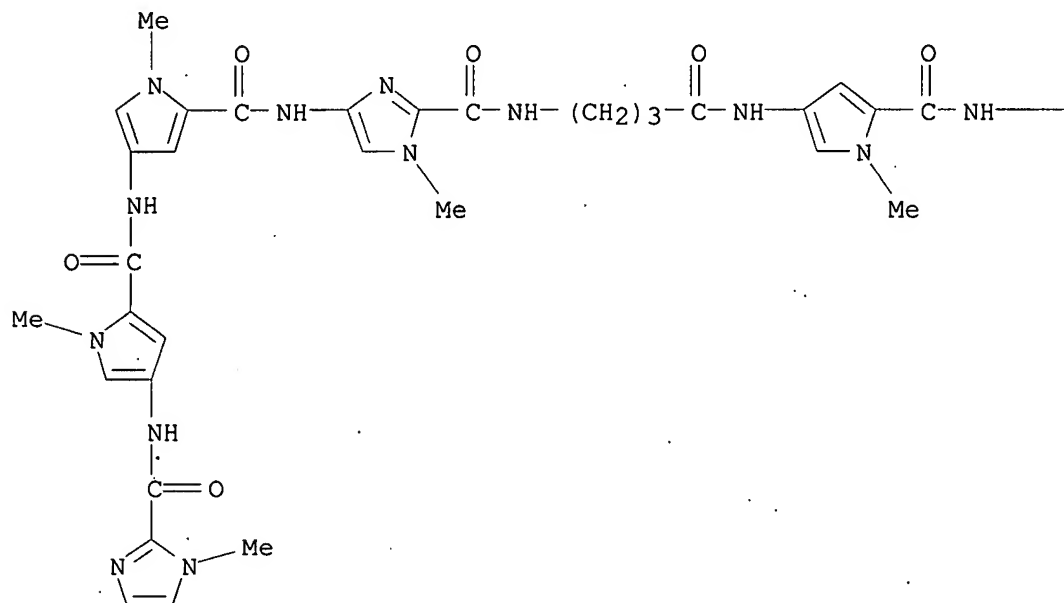


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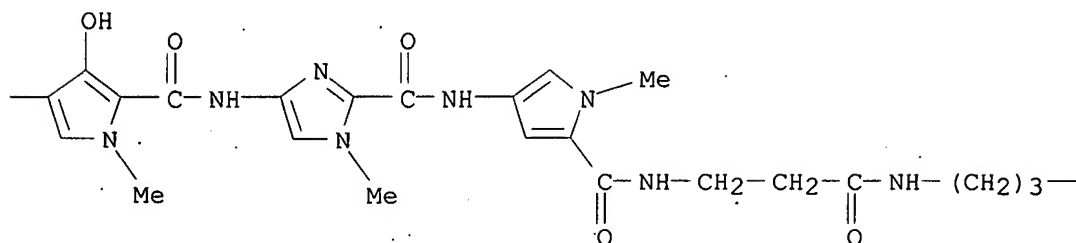


RN 212181-56-1 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]proyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-

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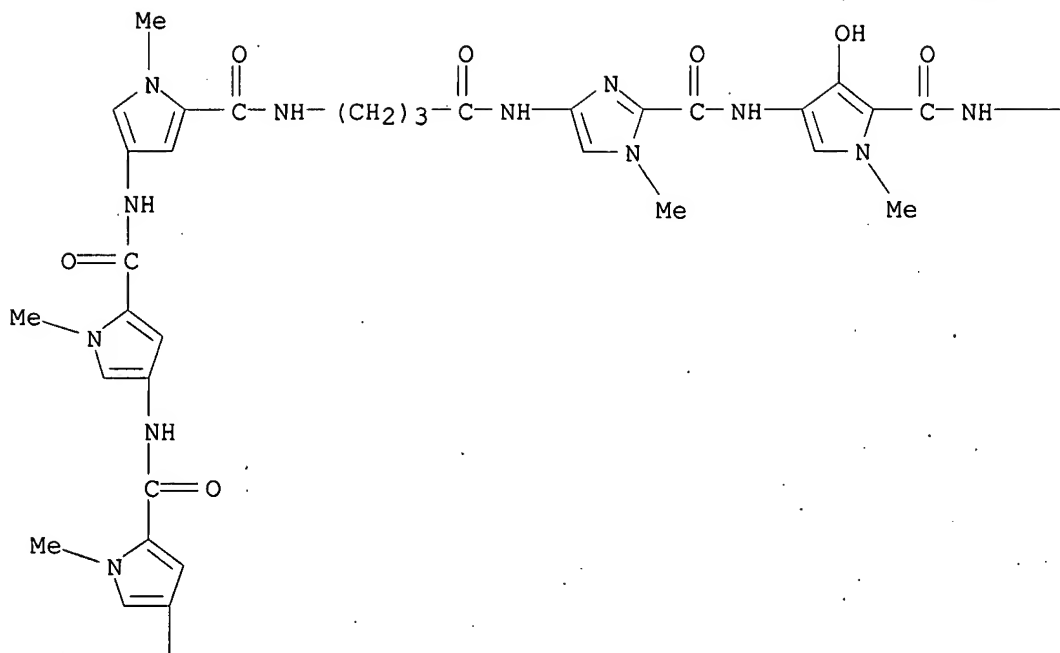


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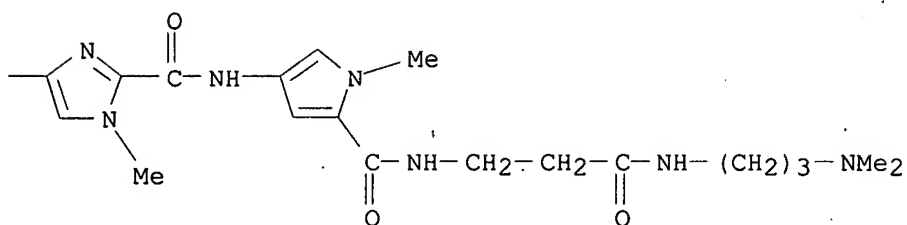
RN	212181-57-2	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-(3-(dimethylamino)propyl)- (9CI) (CA INDEX NAME)	



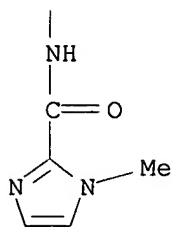
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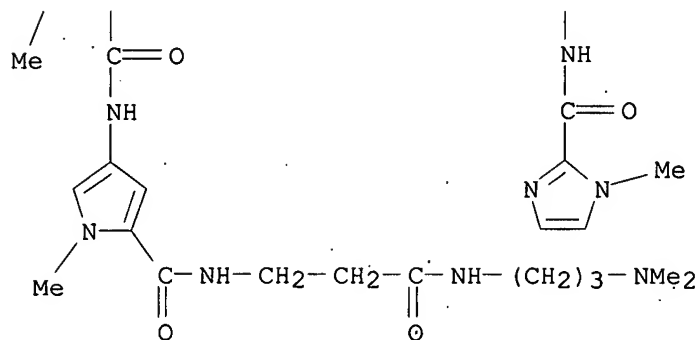
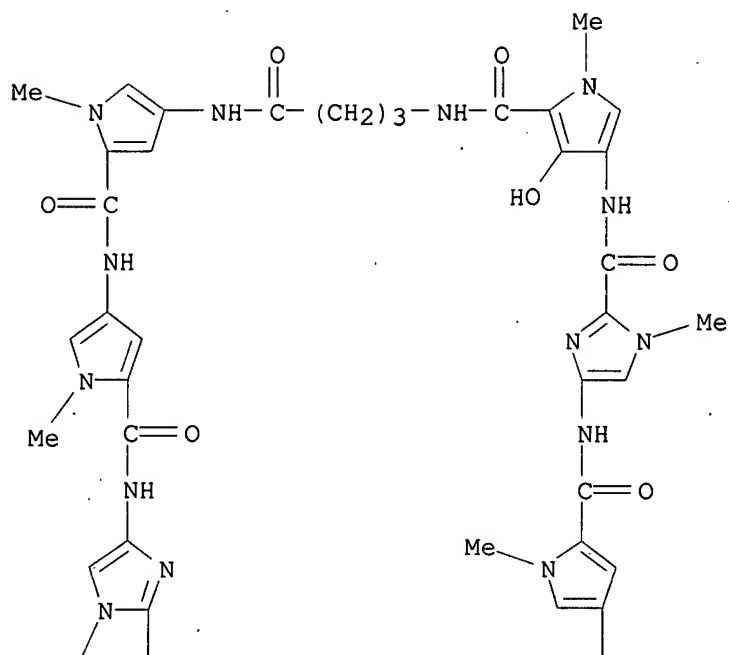
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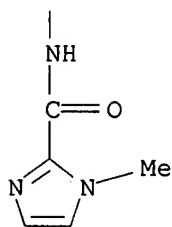
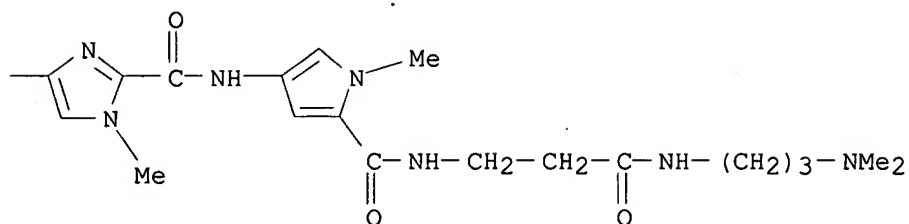
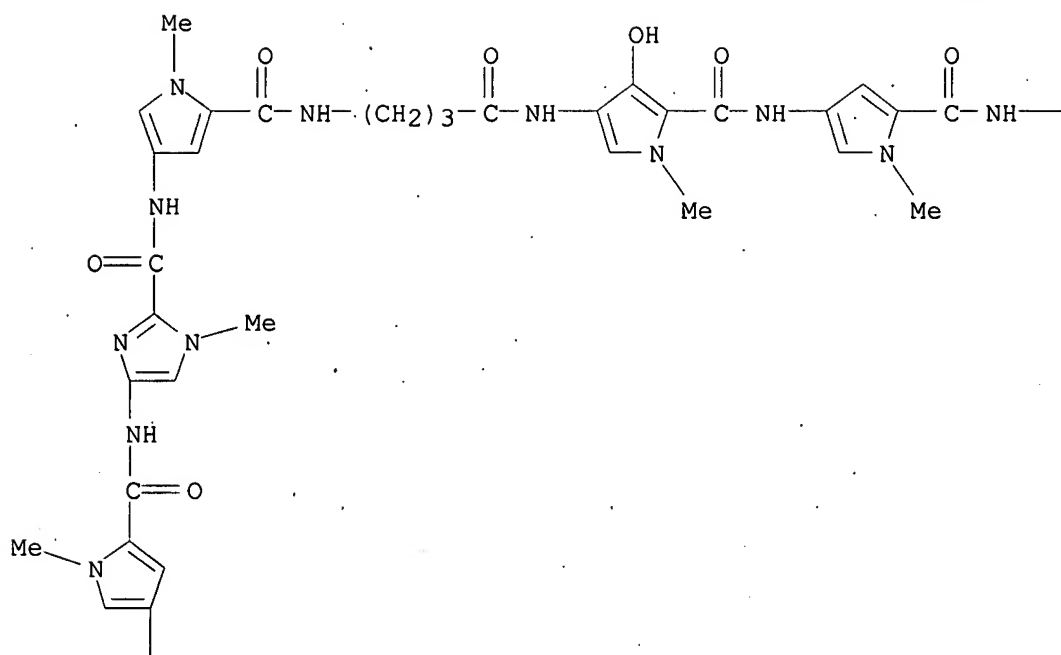
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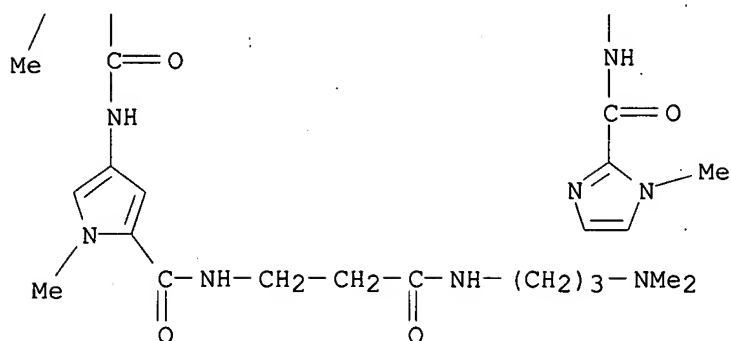
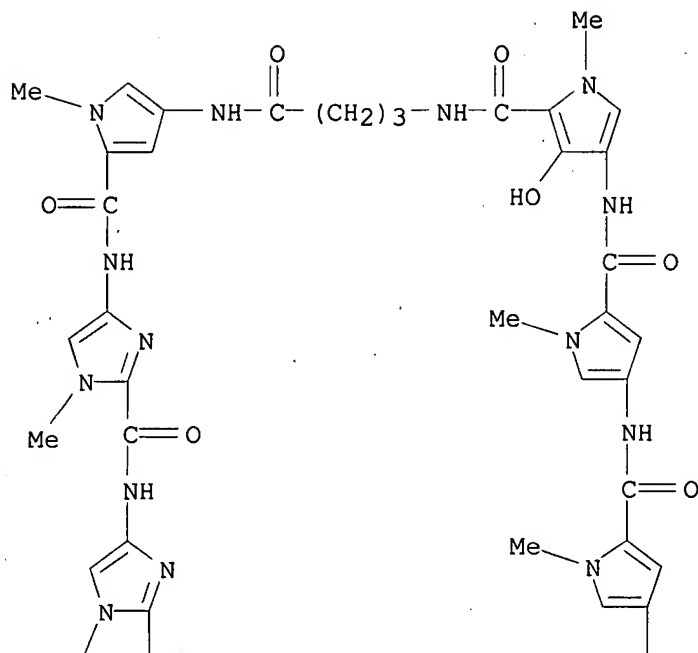
RN 212181-58-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212181-60-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

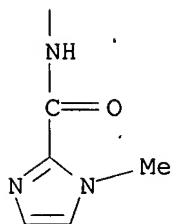
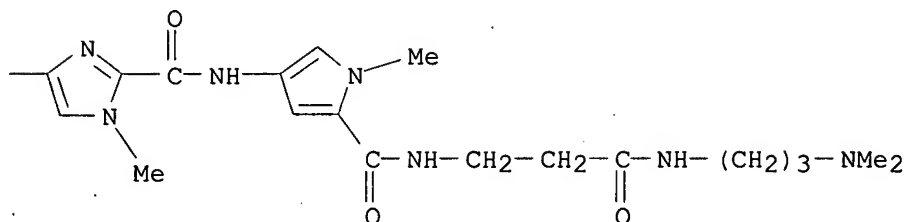
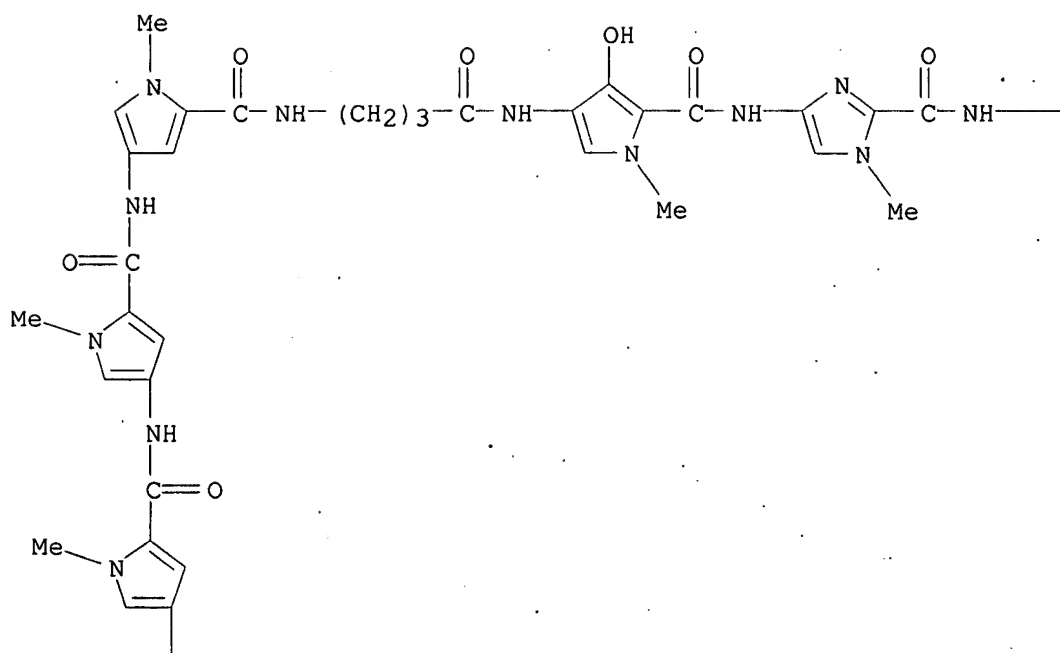


RN 212181-62-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

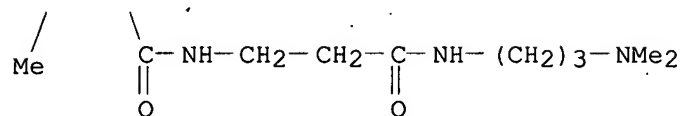
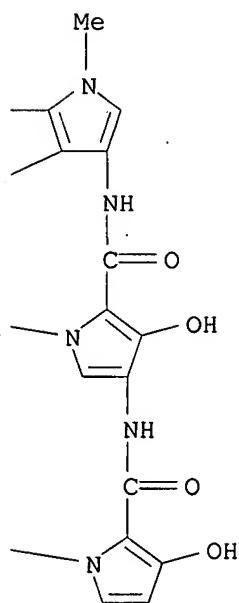
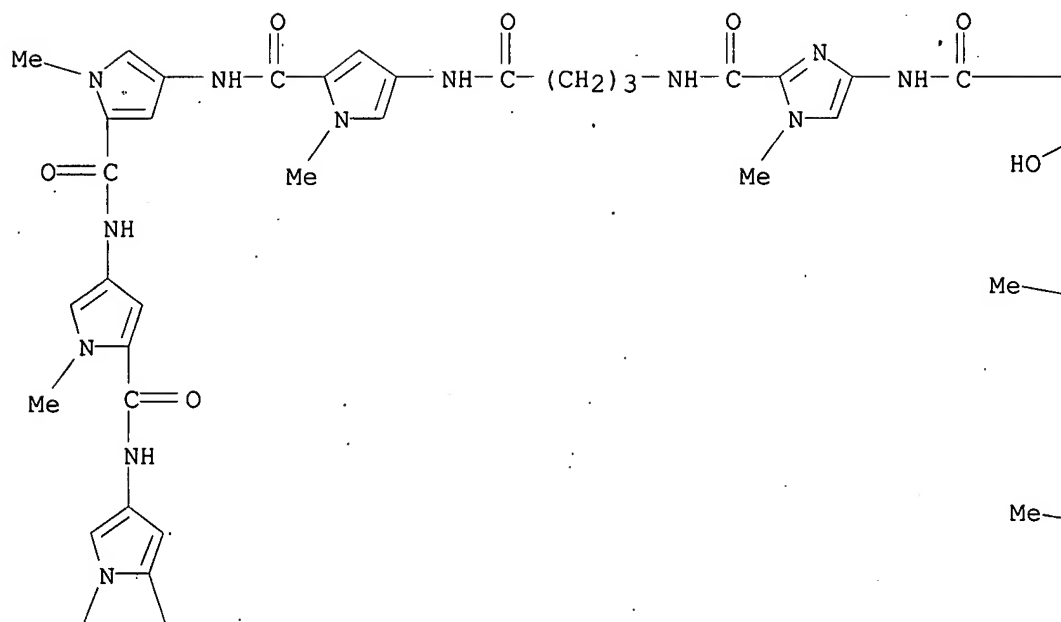


RN 212181-64-1 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

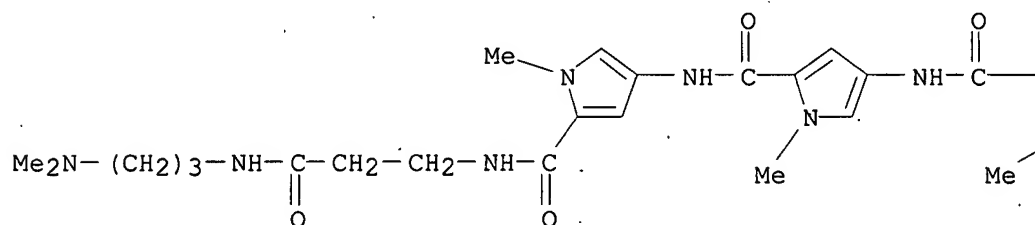


RN 212181-70-9 CAPLUS  
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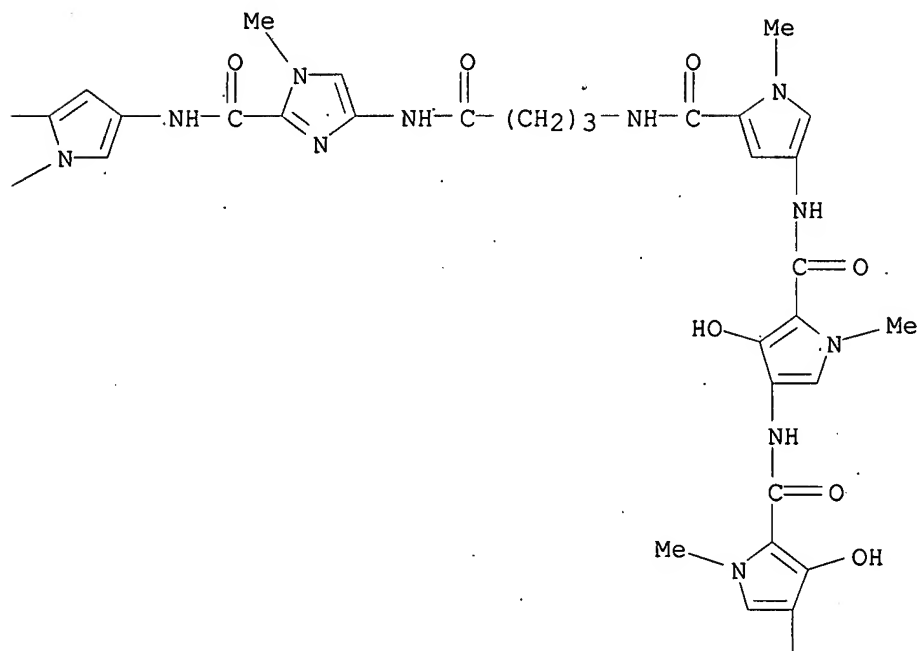


3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

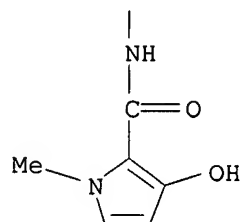
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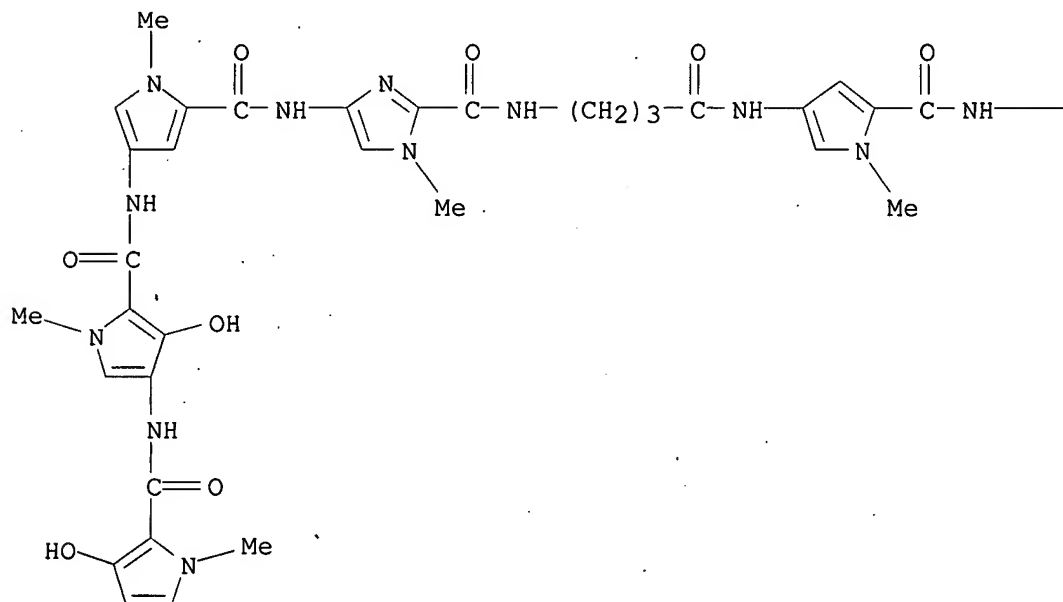
PAGE 2-B



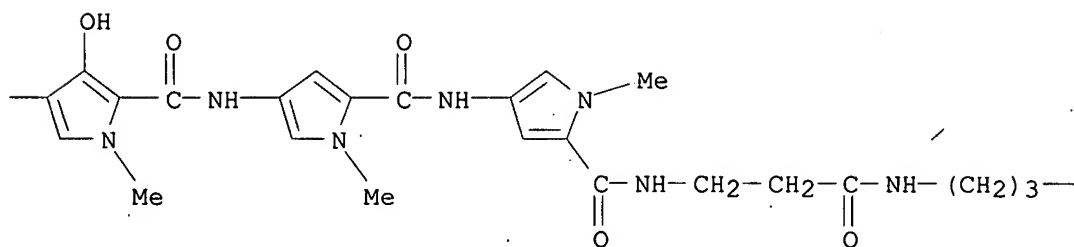
RN 212181-77-6 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-

carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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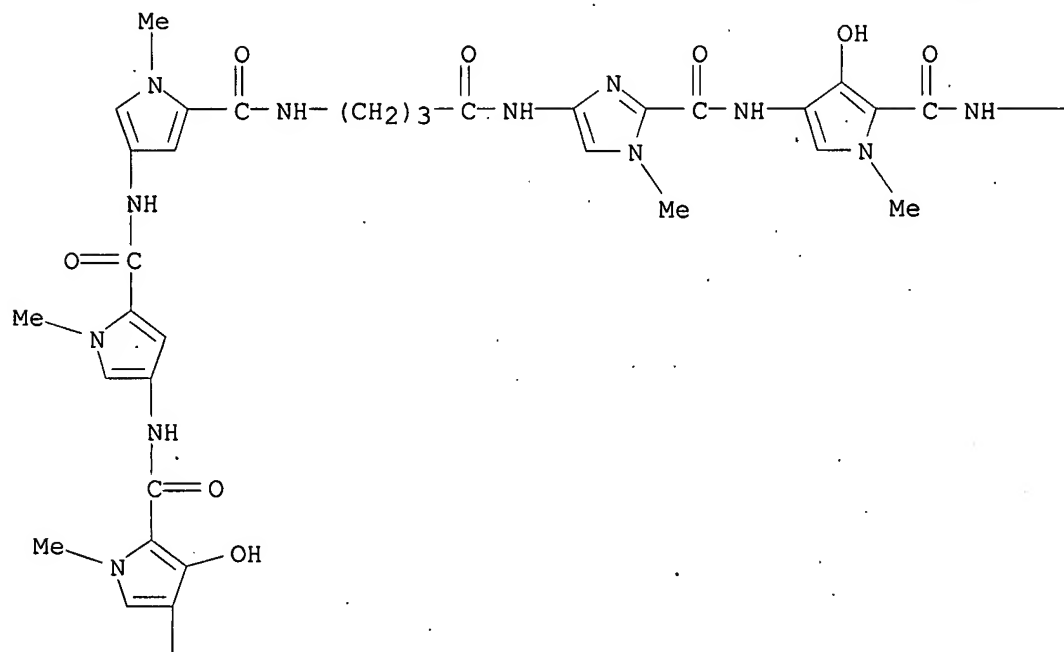
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RN 212181-79-8 CAPLUS  
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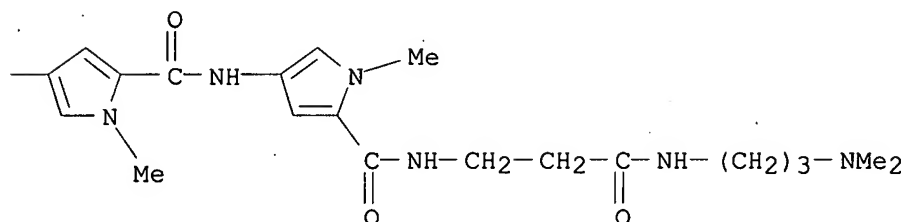


pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

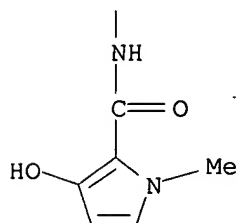
PAGE 1-A



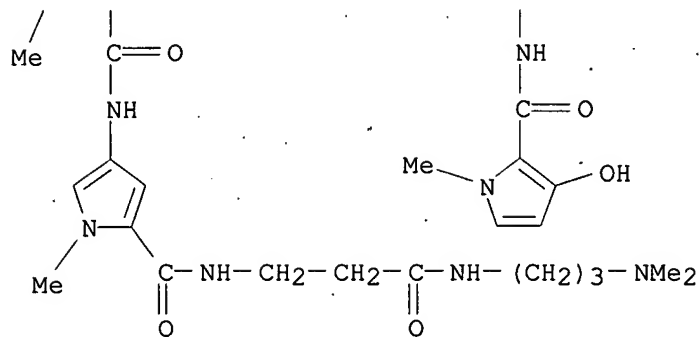
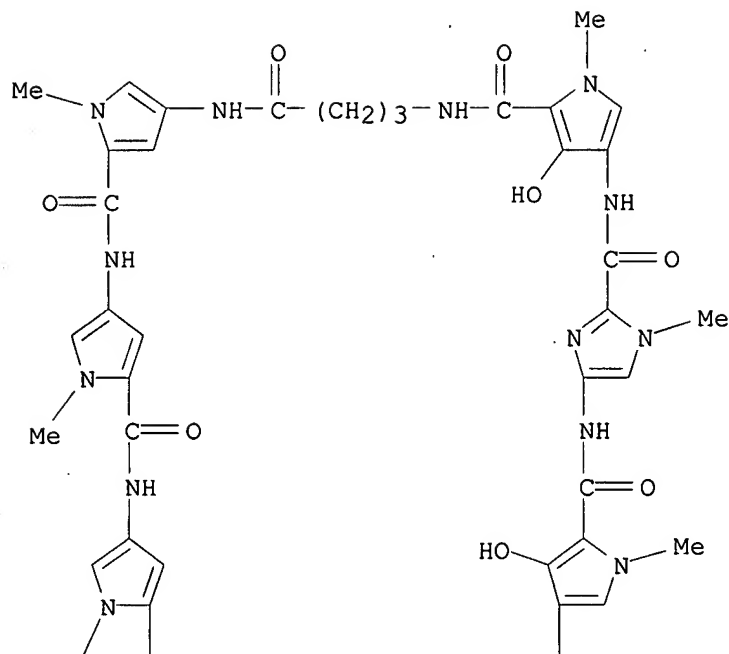
PAGE 1-B



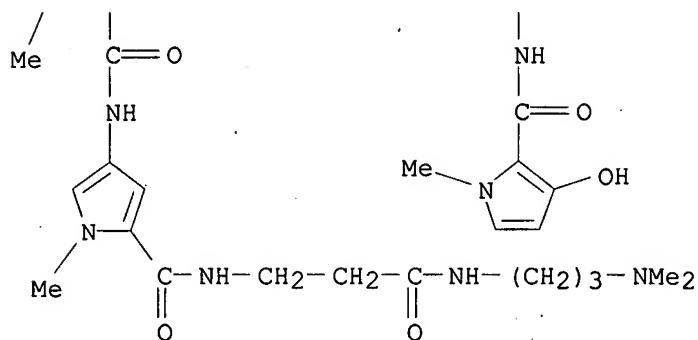
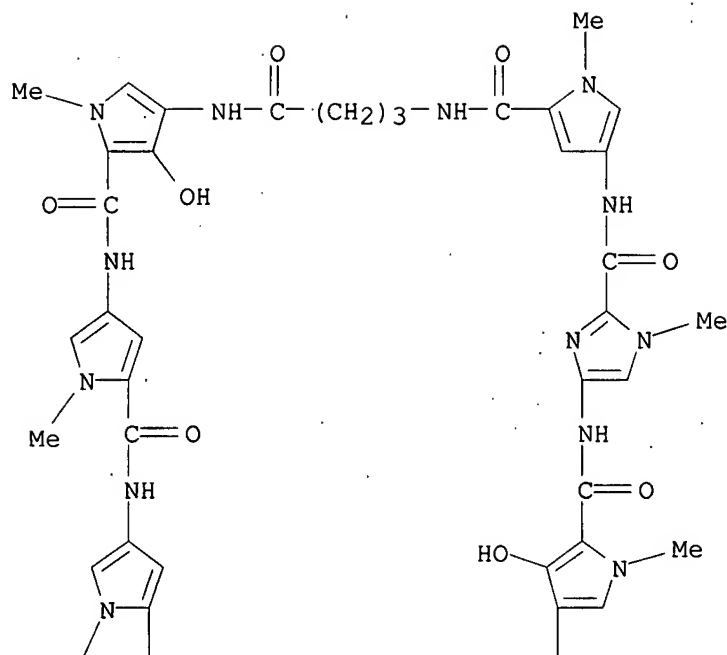
PAGE 2-A



RN 212181-80-1 CAPLUS  
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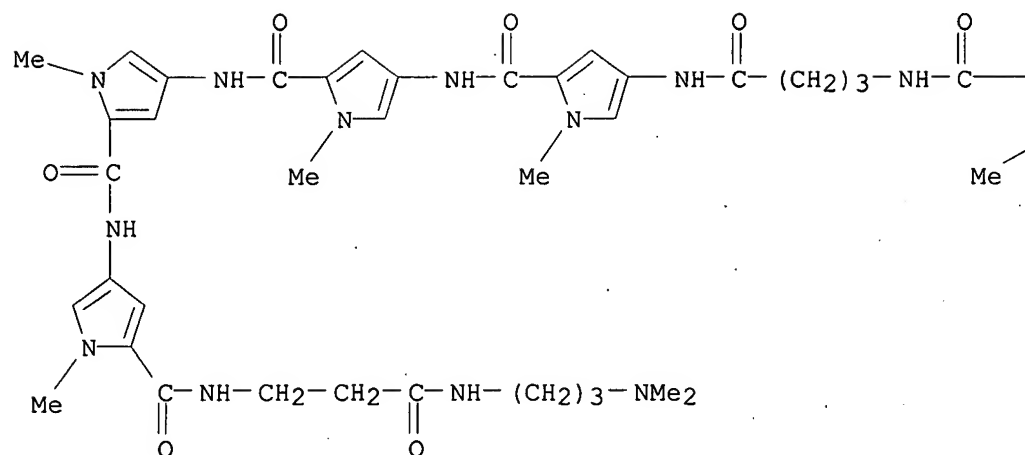


RN 212181-82-3 CAPLUS  
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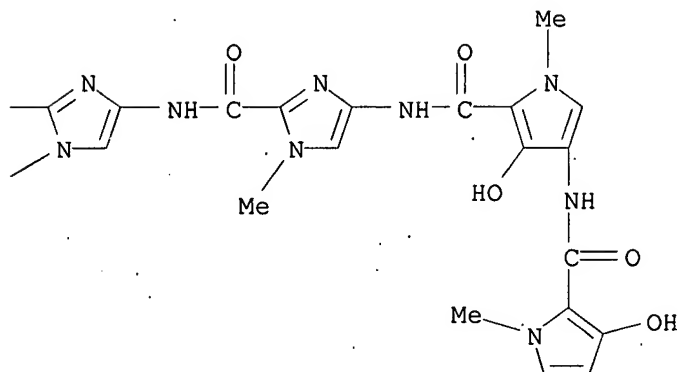


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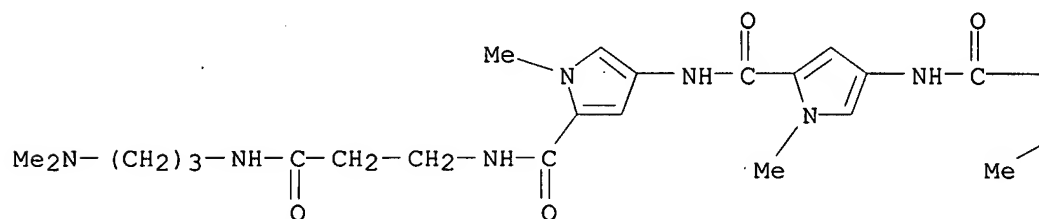


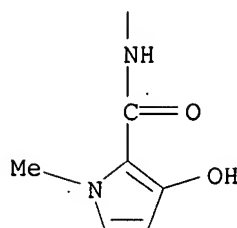
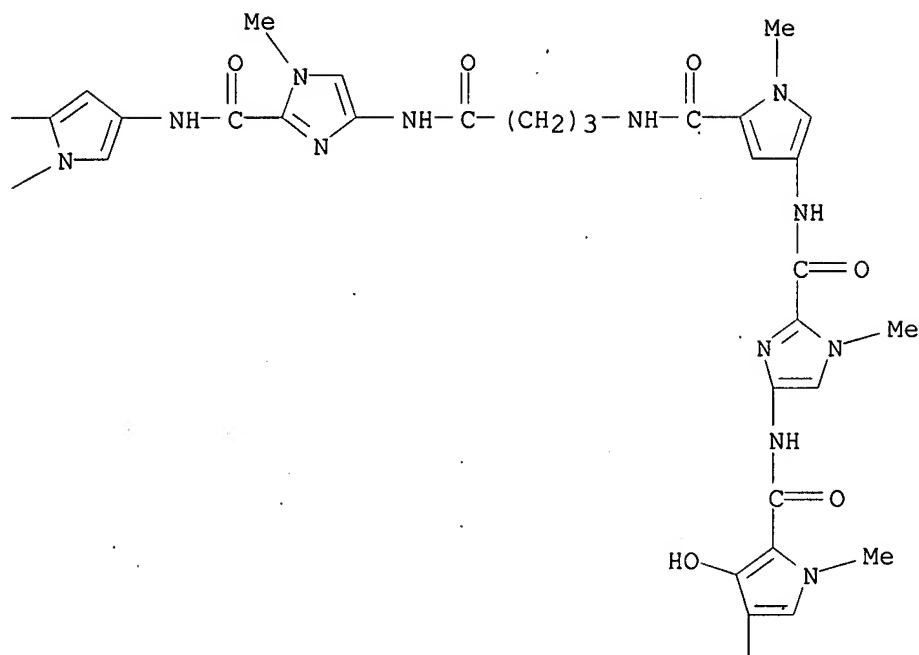
PAGE 1-B



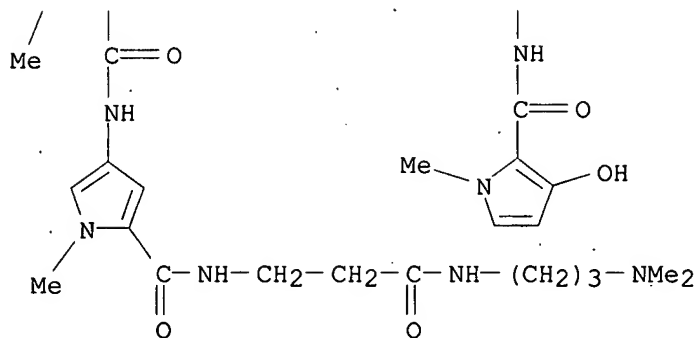
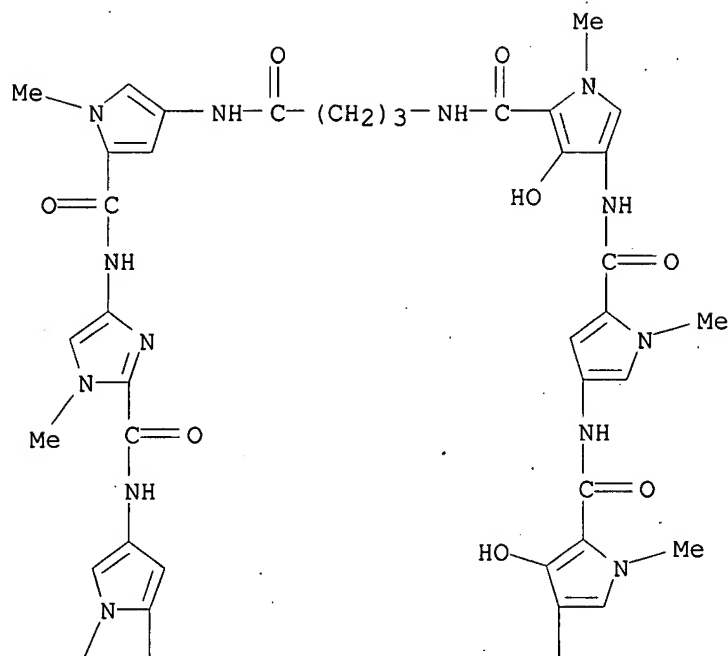
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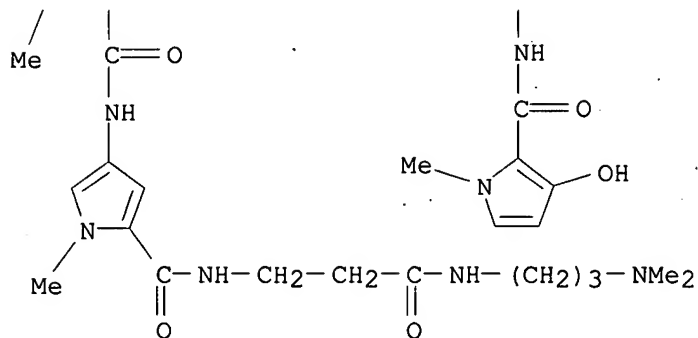
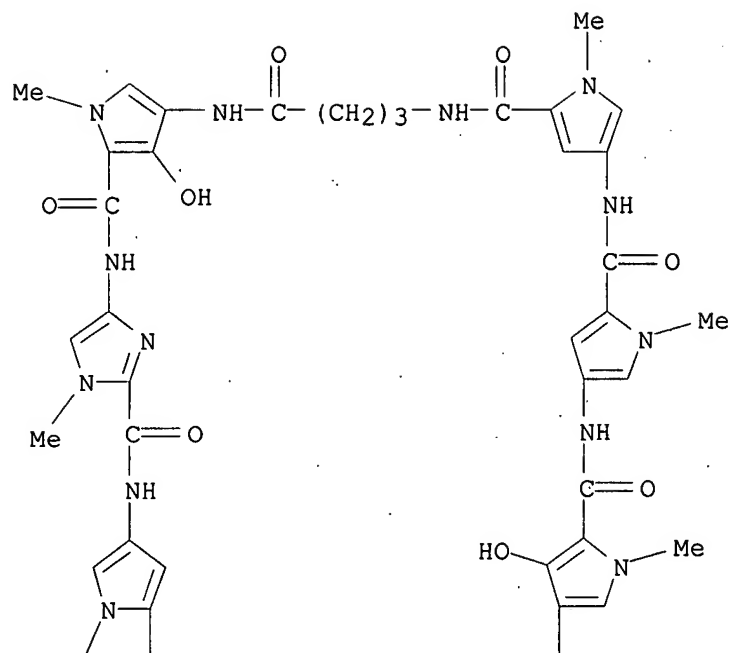




RN 212181-86-7 CAPLUS  
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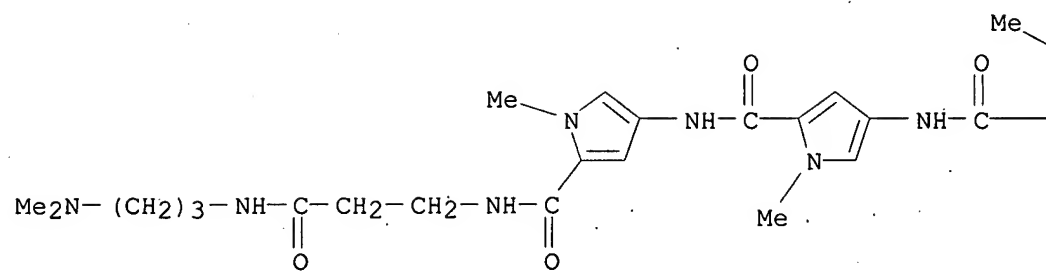


RN 212181-88-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

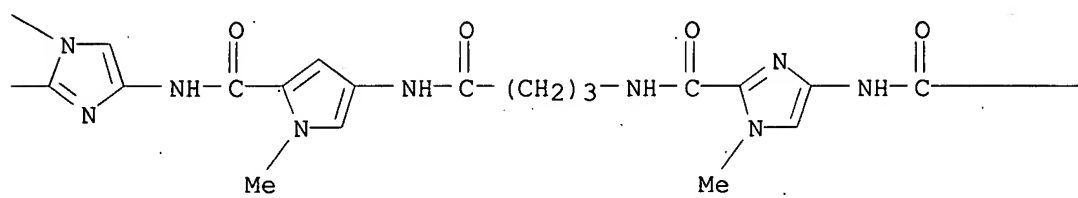


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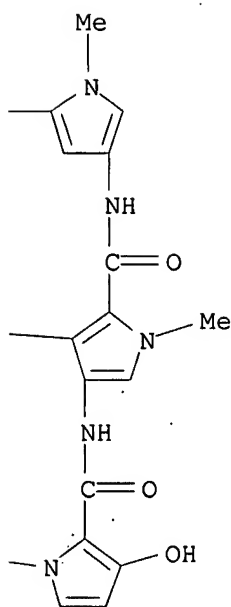
PAGE 1-B



HO—

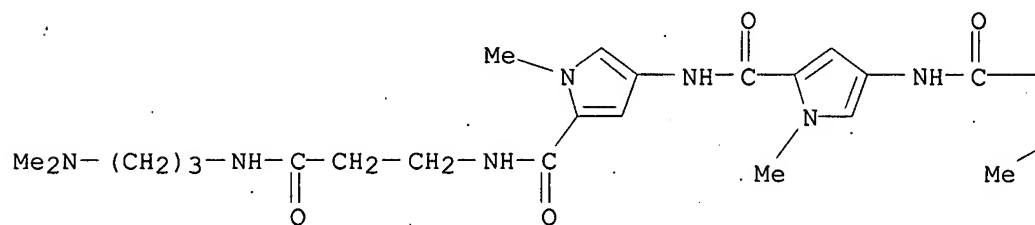
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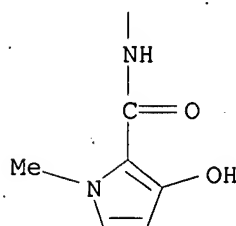
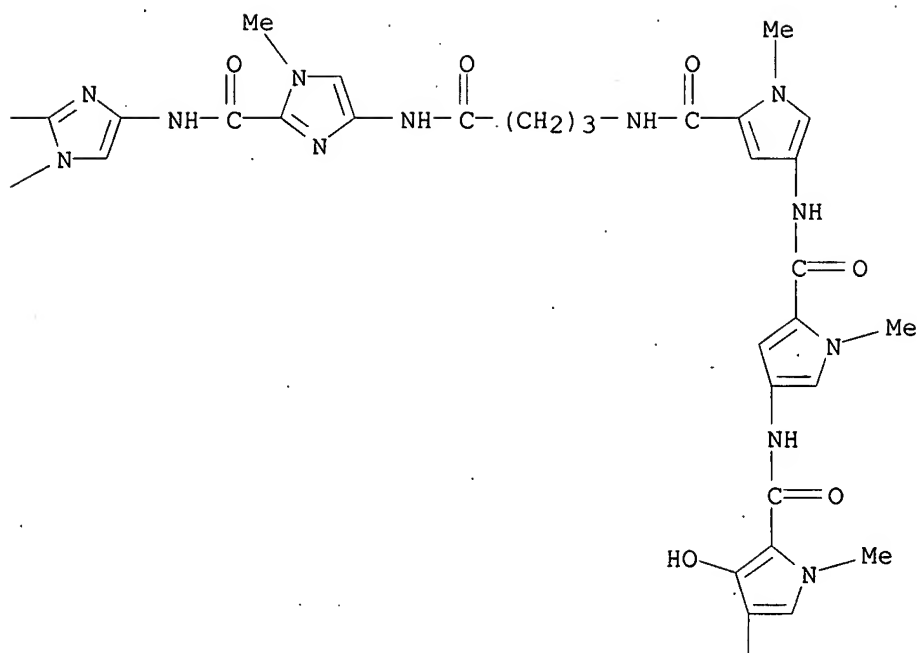




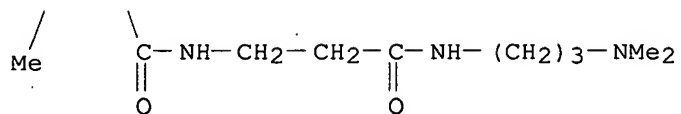
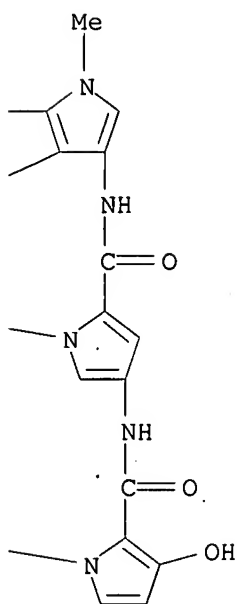
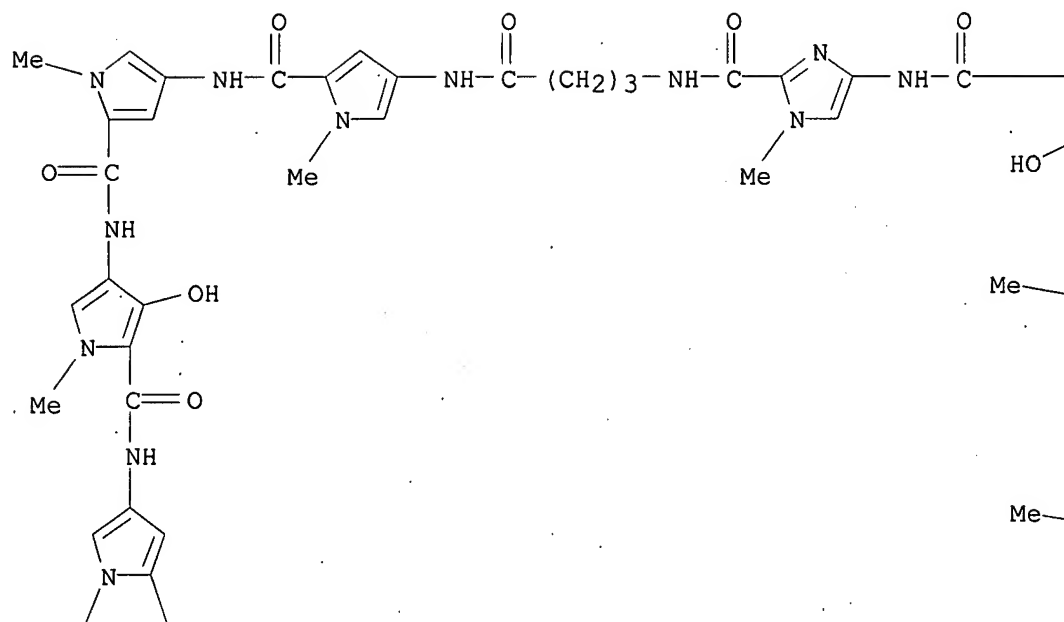
RN 212181-91-4 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)





RN 212181-95-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



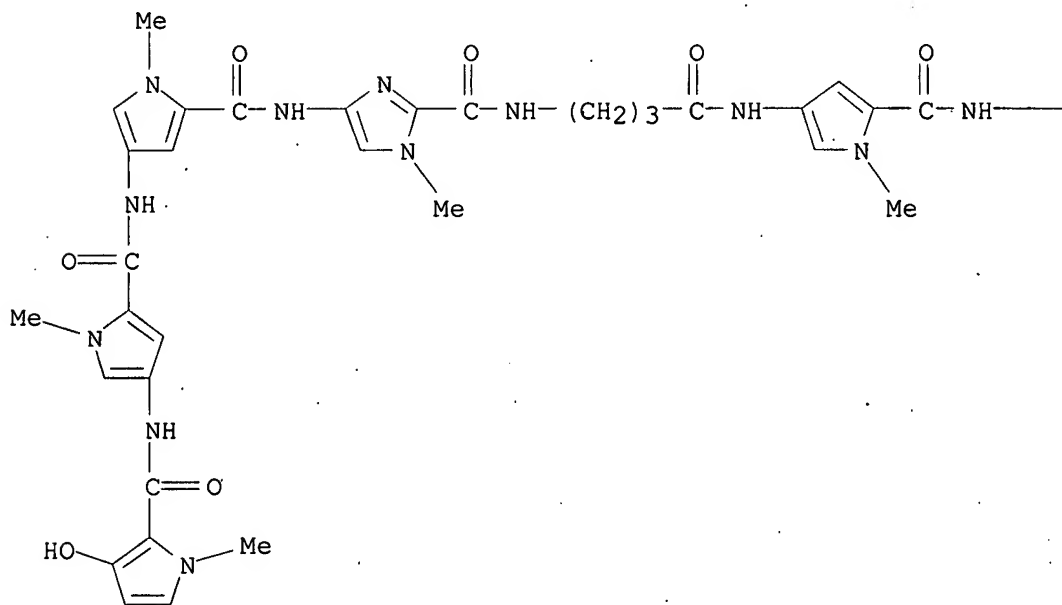
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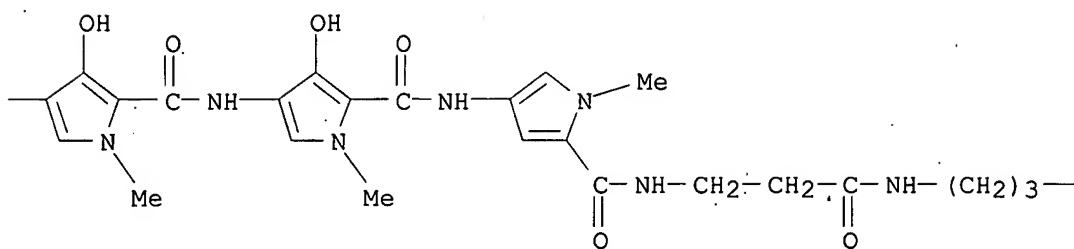
RN

CN

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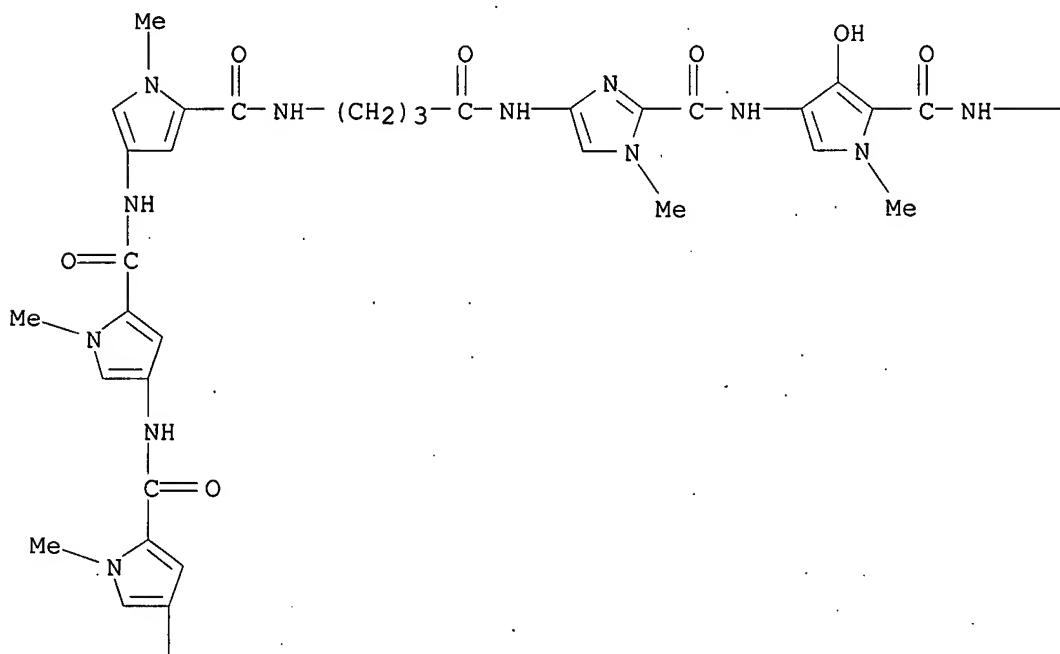


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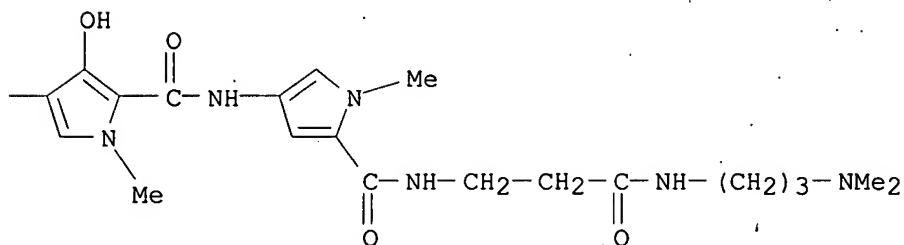
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amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-  
2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

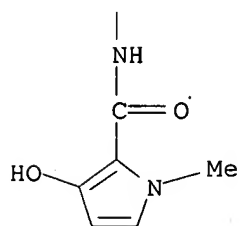
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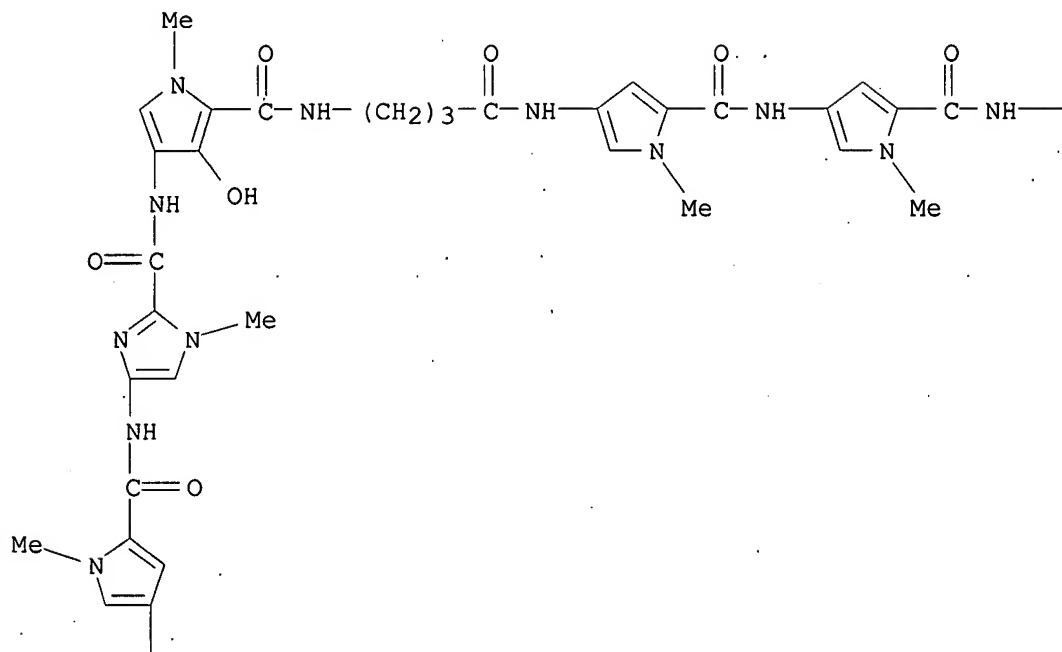


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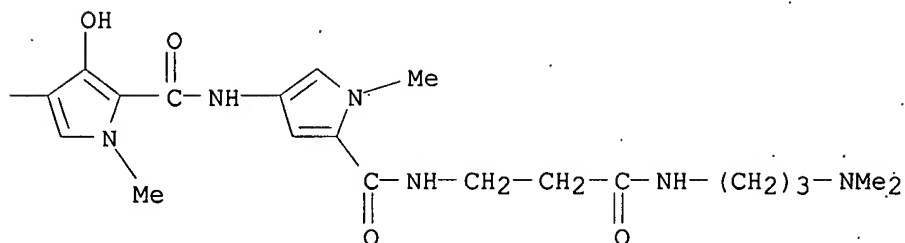


RN 212182-07-5 CAPLUS  
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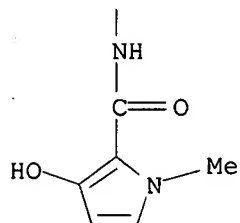
PAGE 1-A



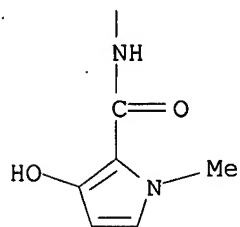
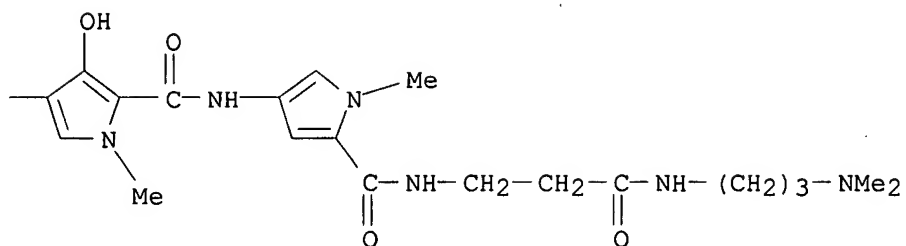
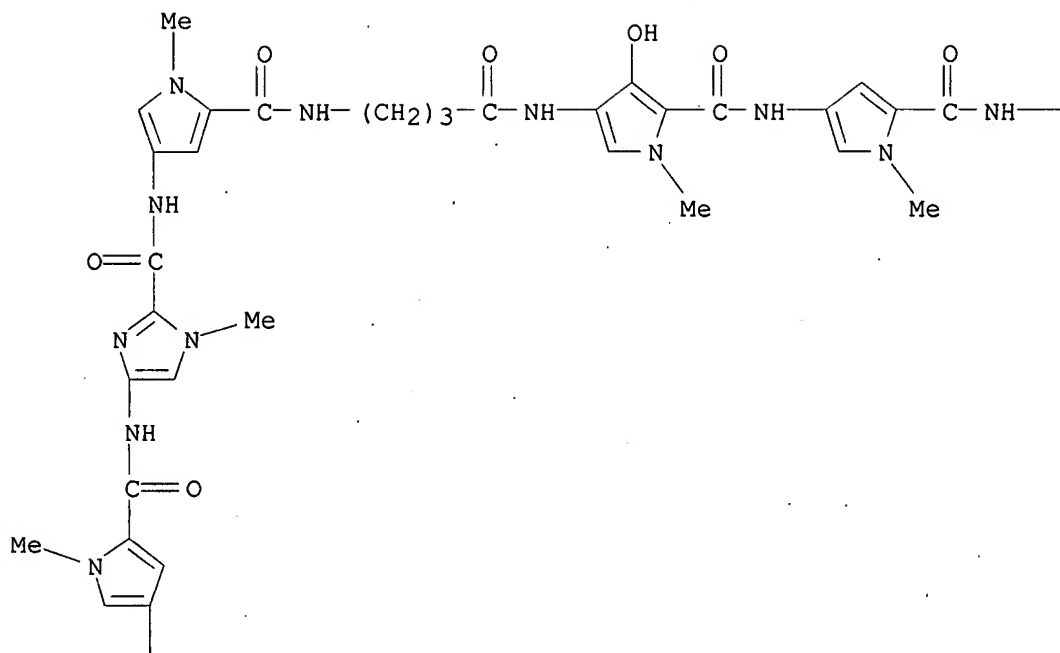
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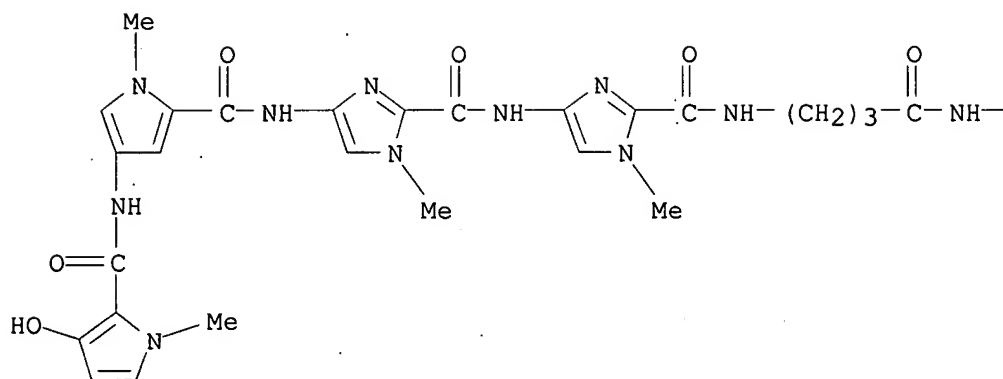
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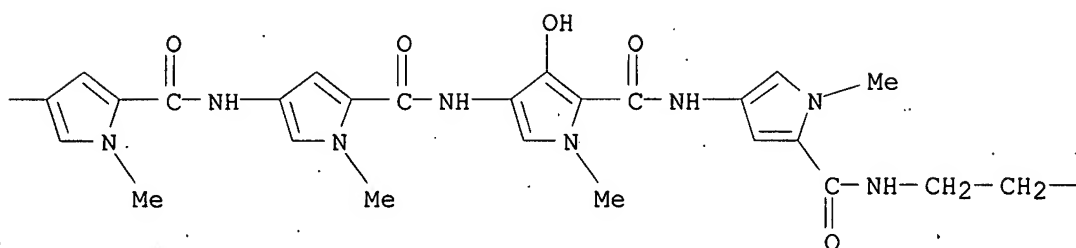
RN 212182-12-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



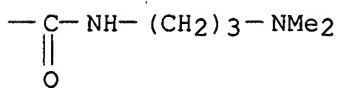
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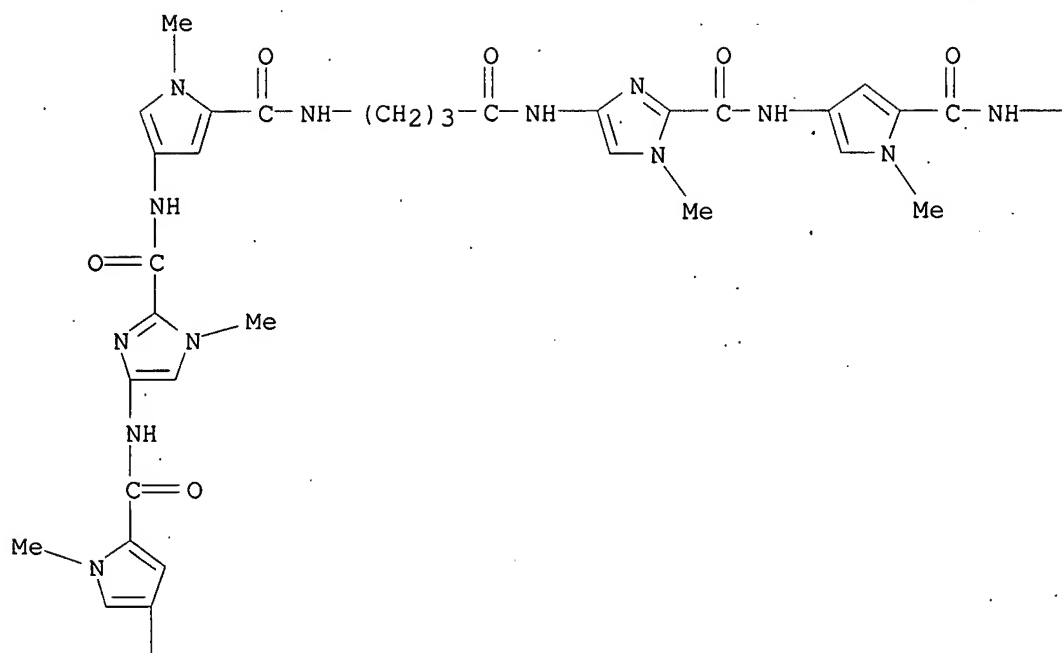


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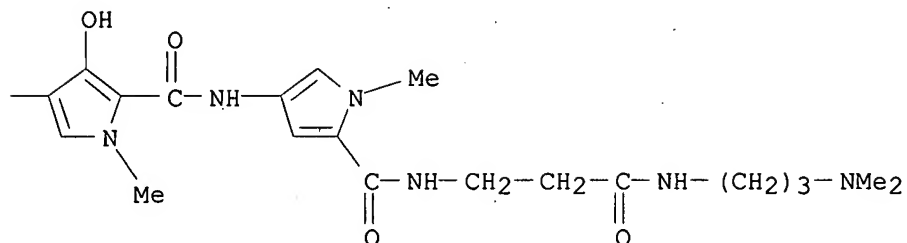


RN 212182-14-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

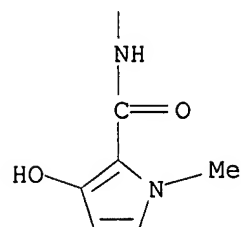
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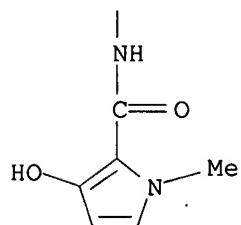
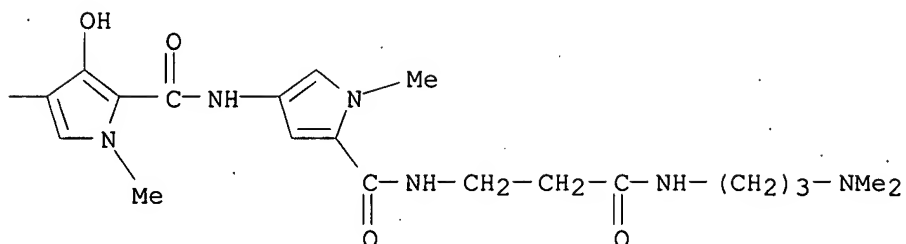
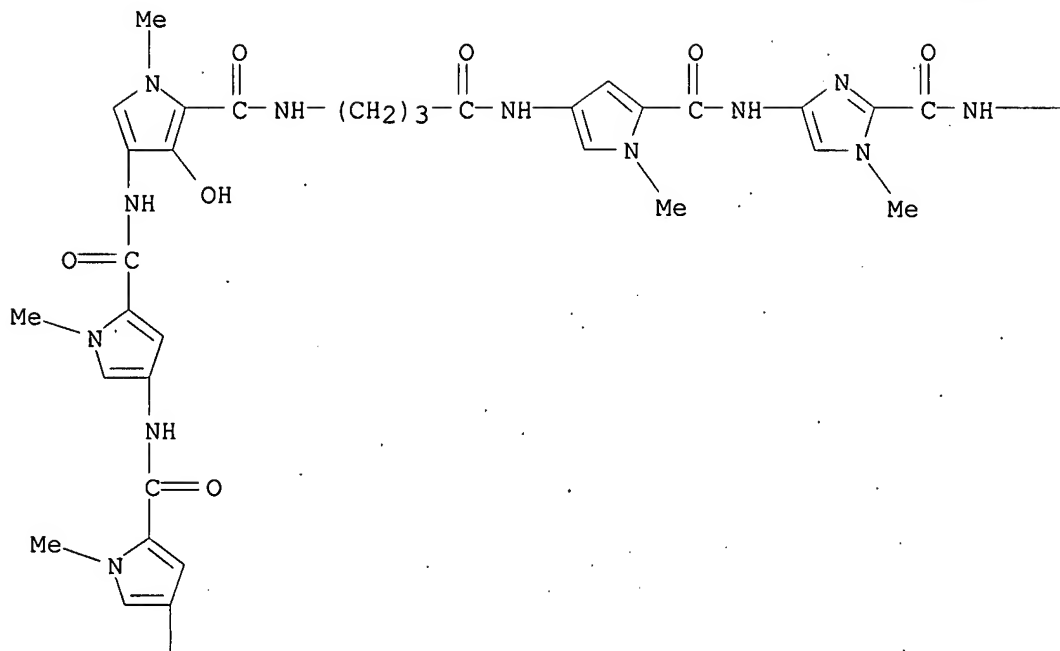
PAGE 1-B



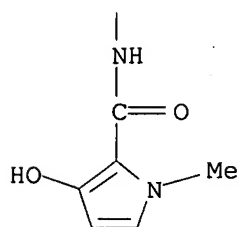
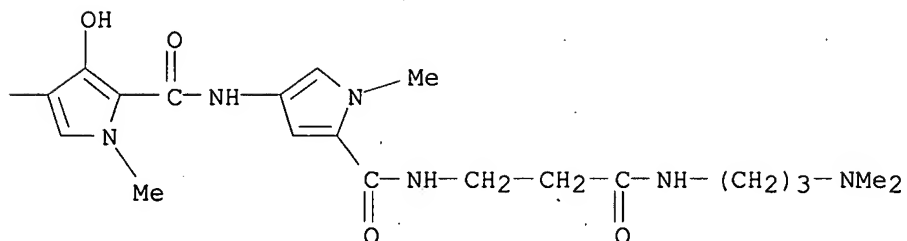
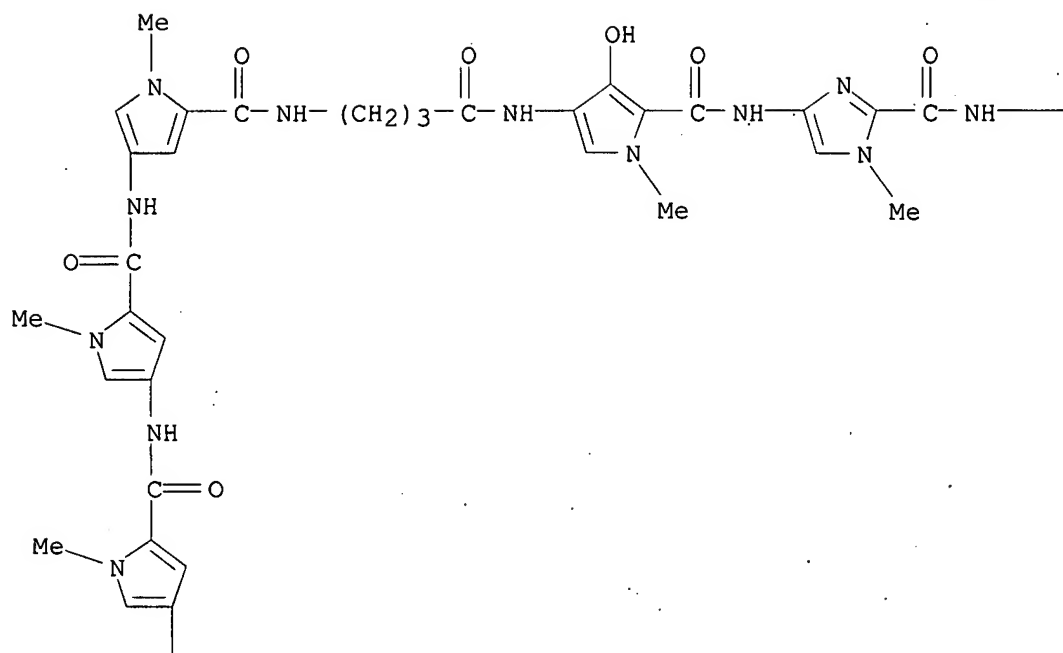
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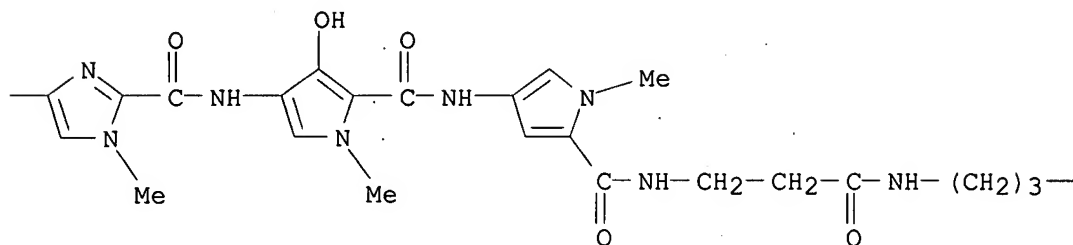
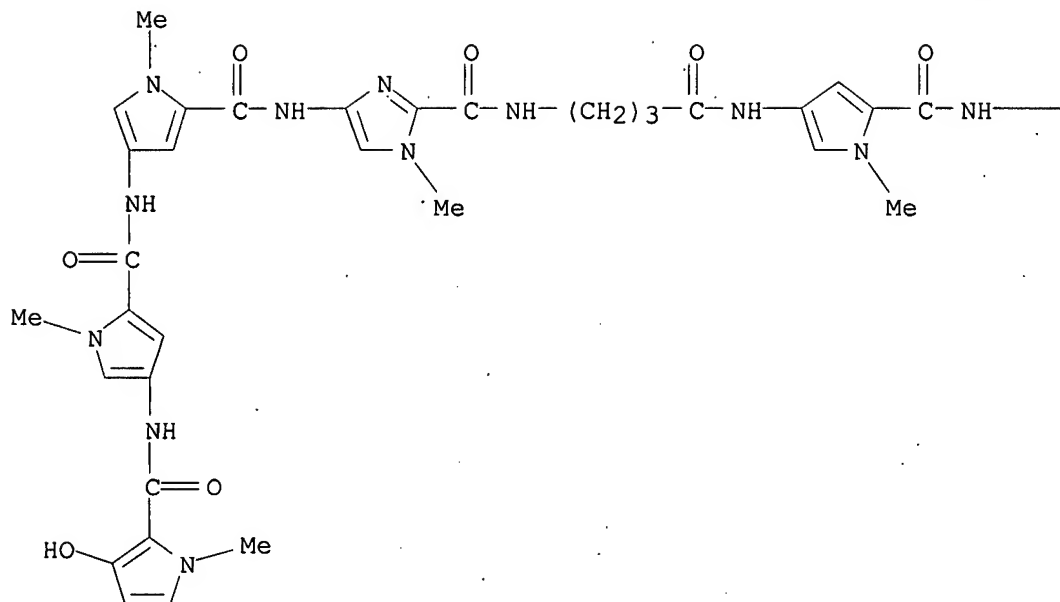
RN 212182-16-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212182-18-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



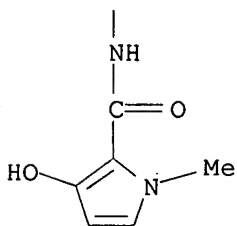
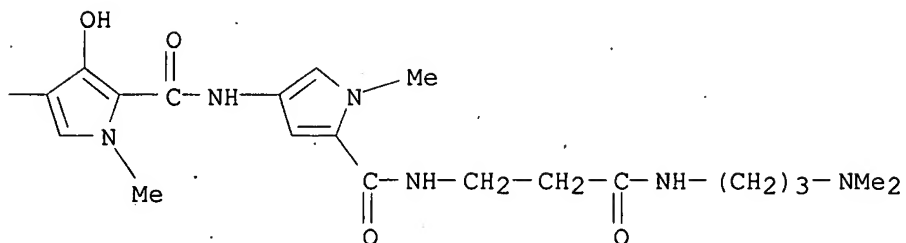
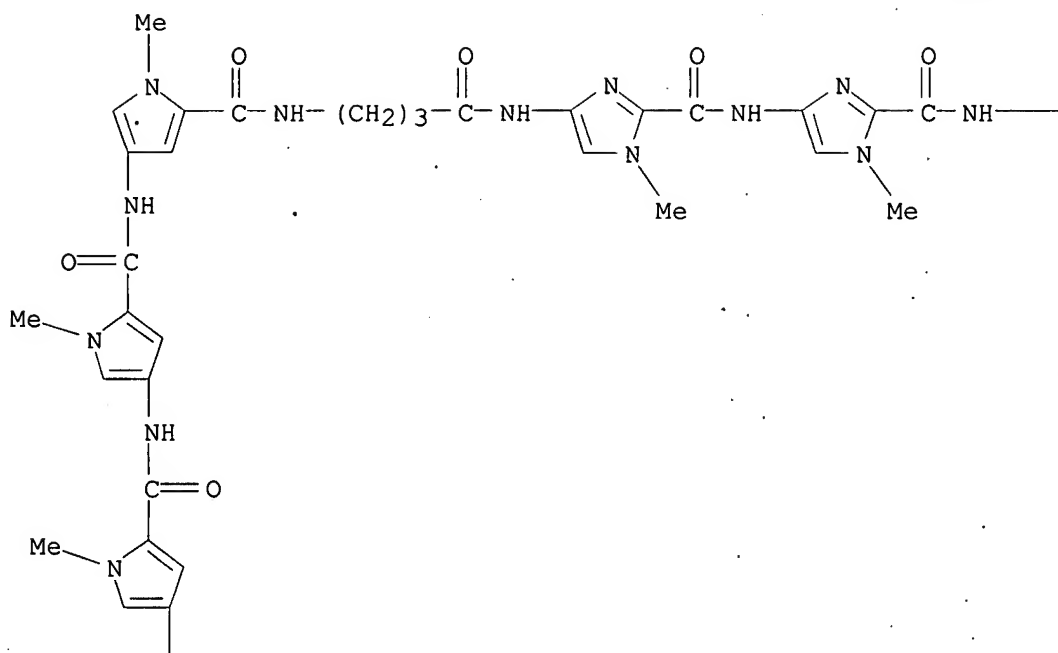
RN 212182-20-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



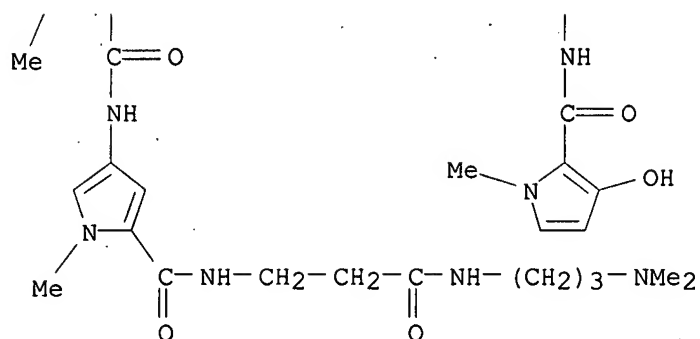
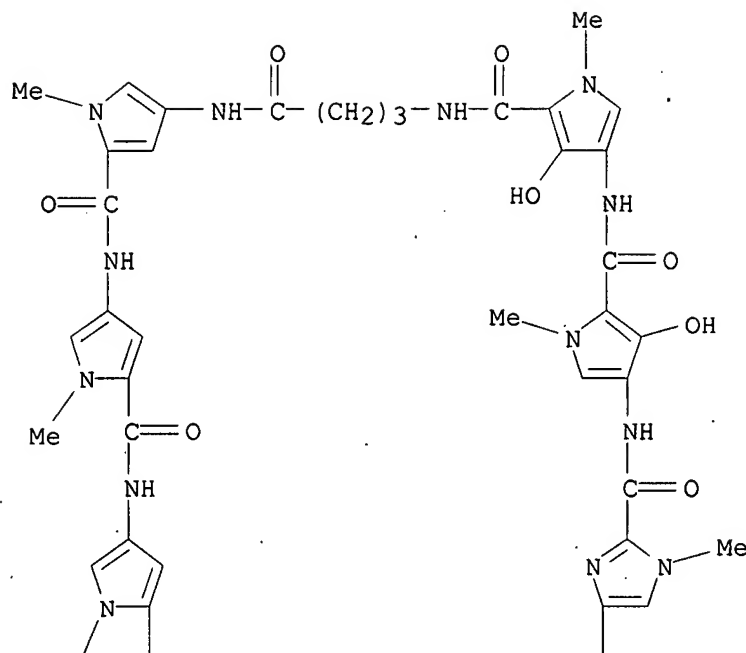
— NMe<sub>2</sub>

RN 212182-22-4 CAPLUS

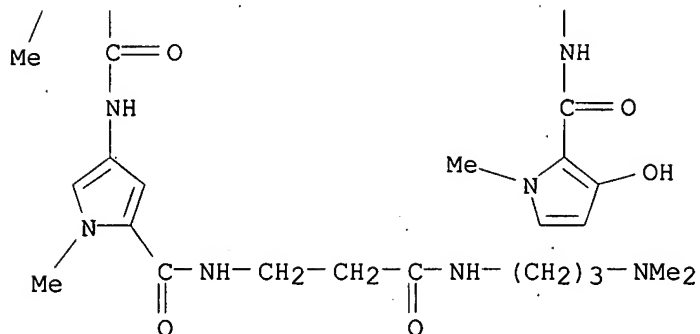
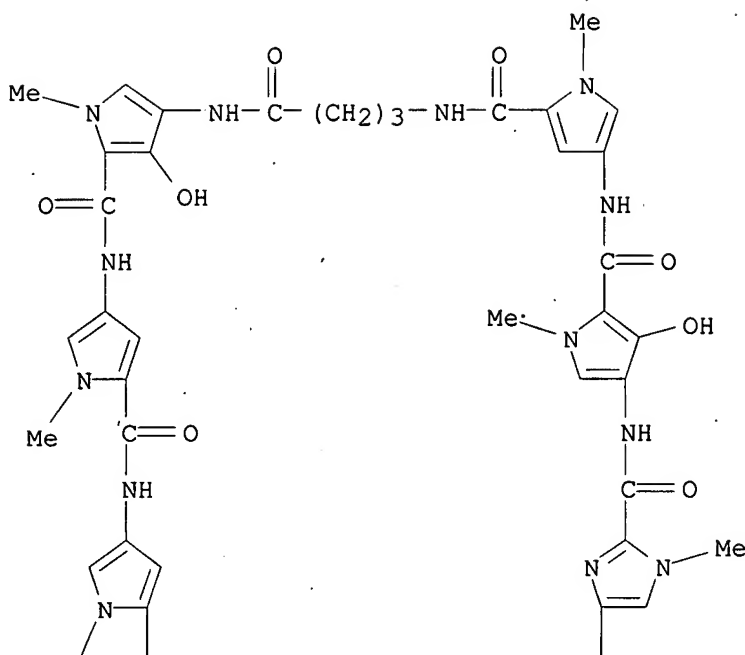
CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212182-24-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



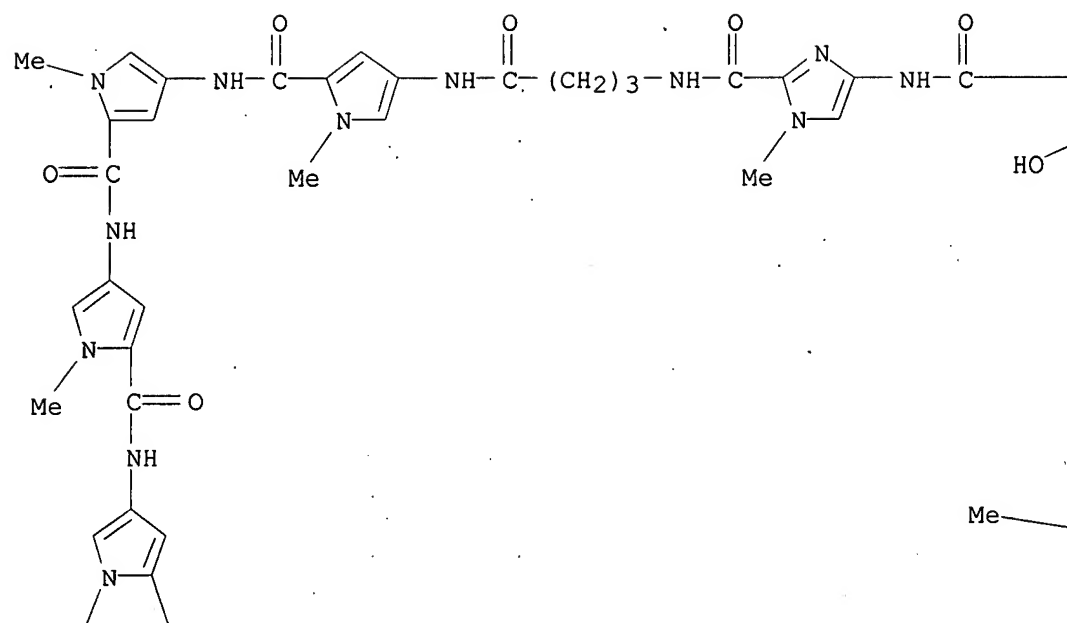
RN 212182-26-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



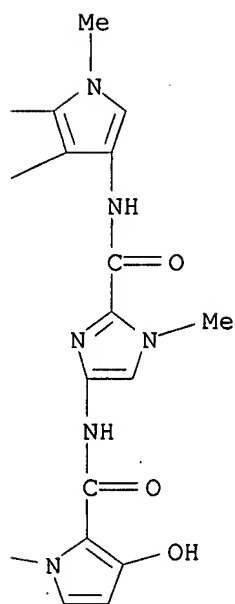
RN	212182-28-0	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	



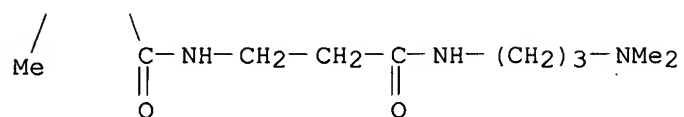
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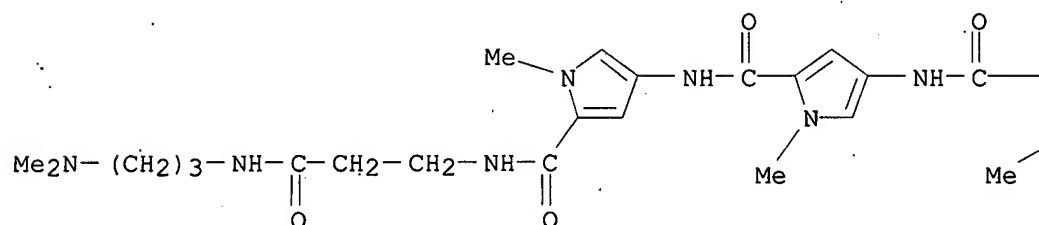


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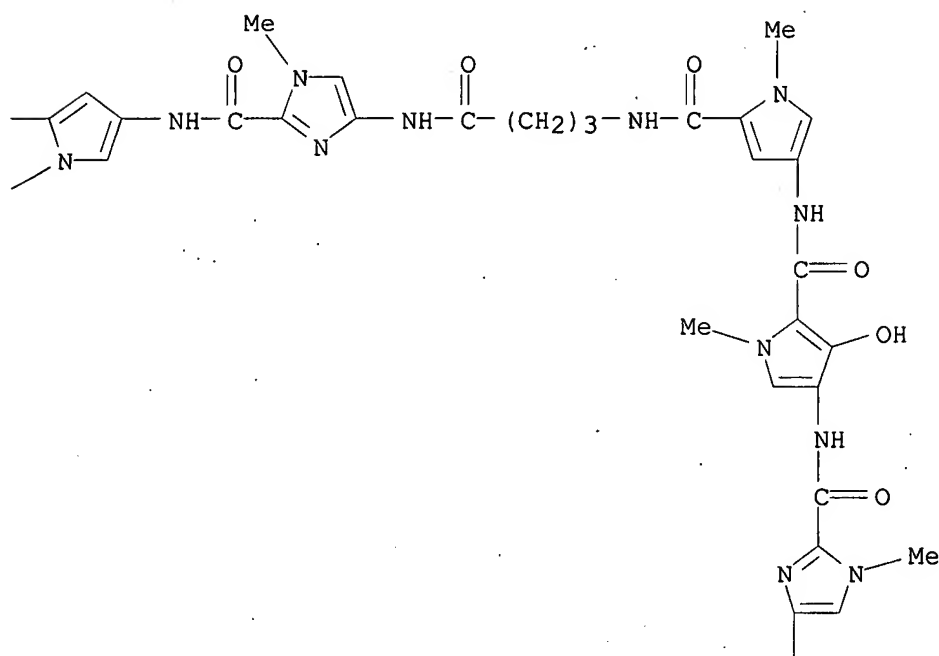


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

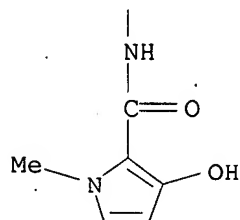
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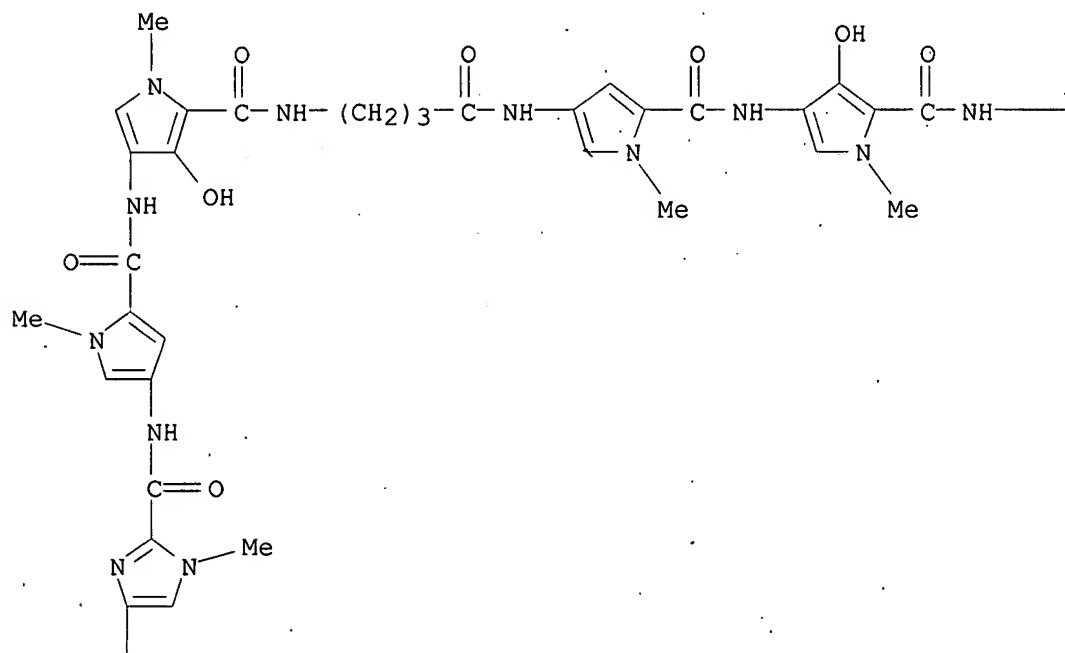
PAGE 2-B



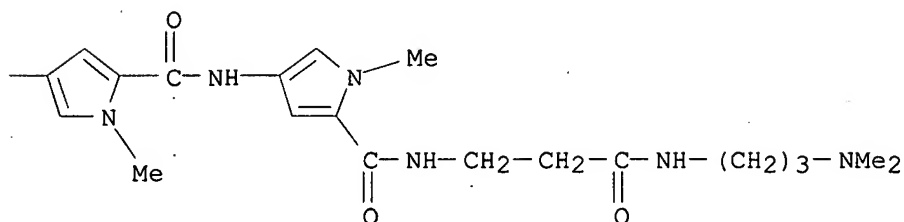
RN 212182-32-6 CAPLUS  
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-

1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

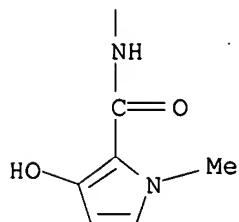
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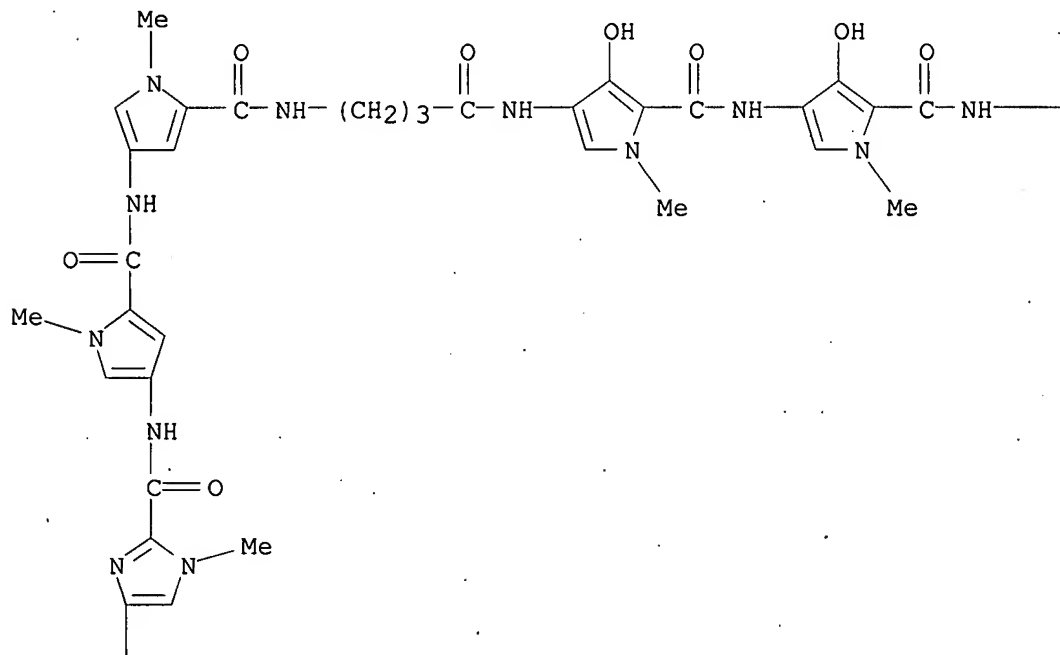
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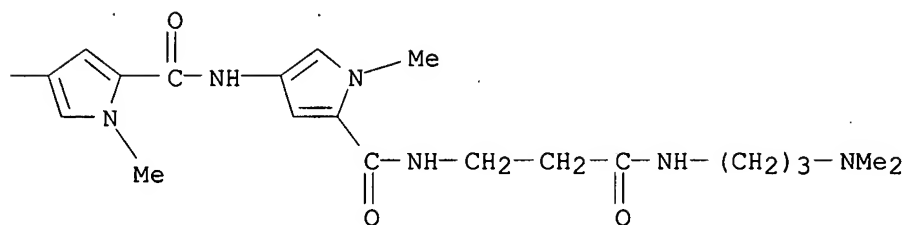
RN 212182-33-7 CAPLUS  
CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-

amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

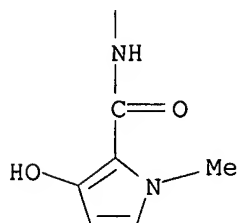
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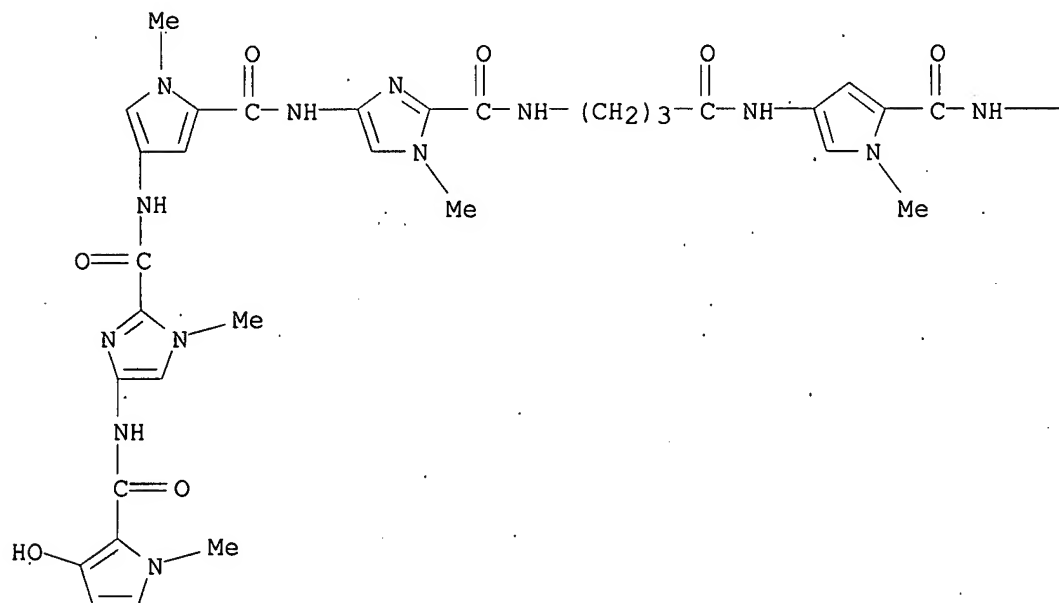
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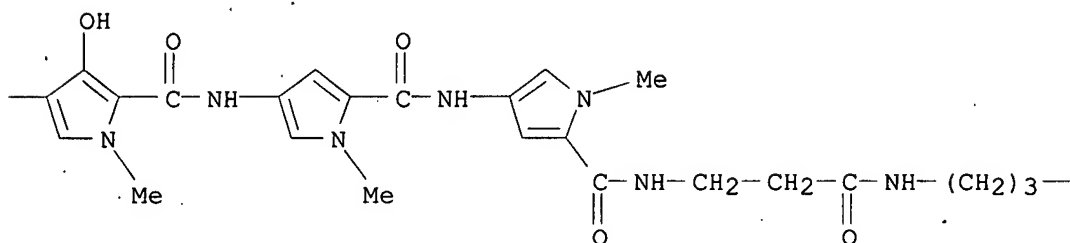
RN 212182-35-9 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-

pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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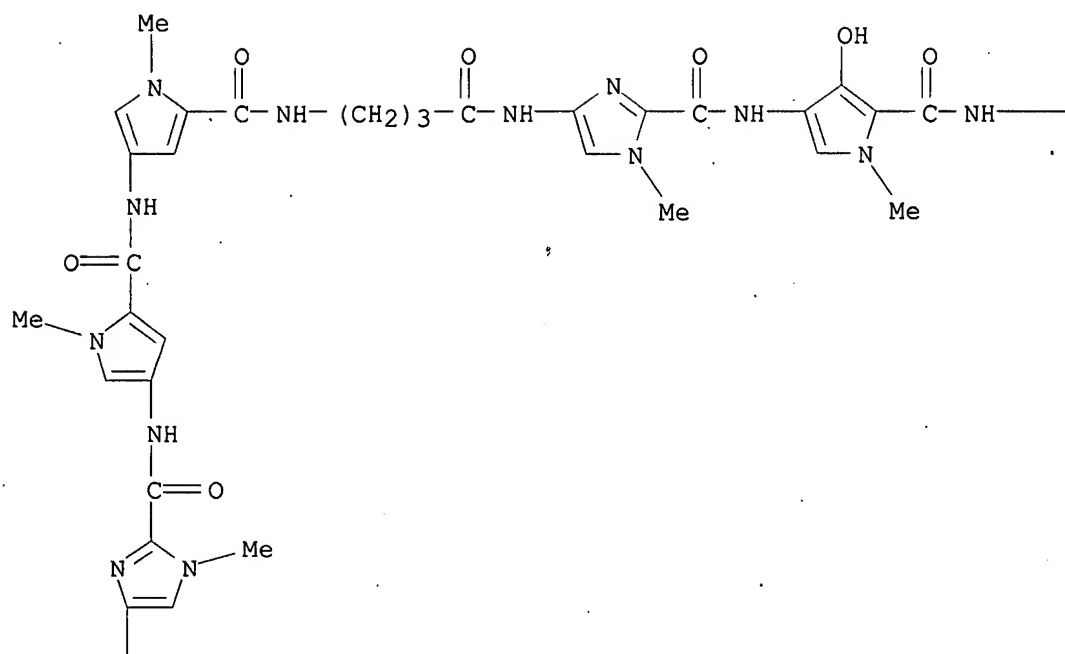


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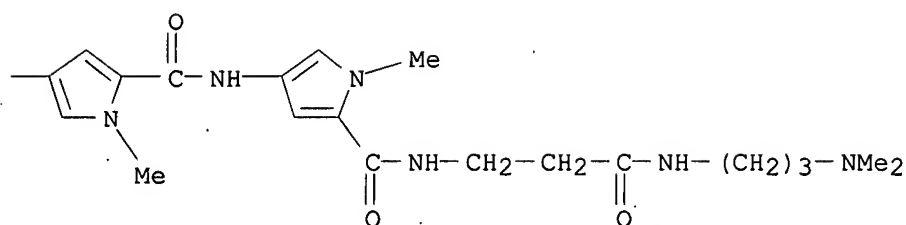
— NMe<sub>2</sub>

RN 212182-37-1 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

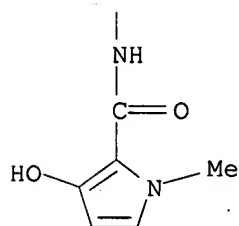
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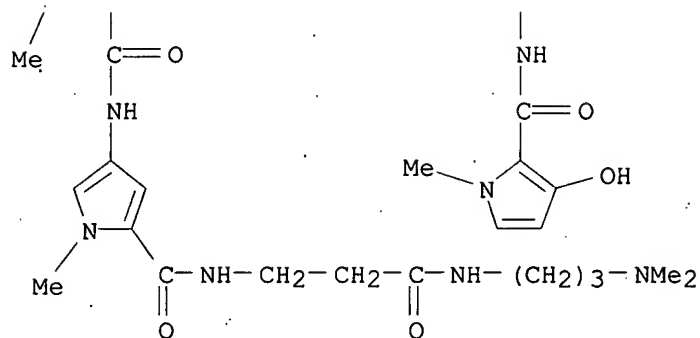
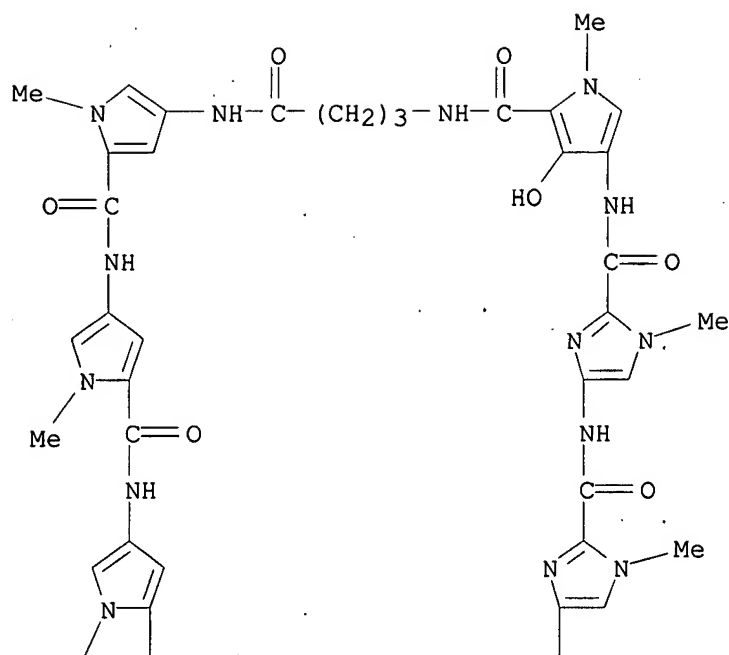
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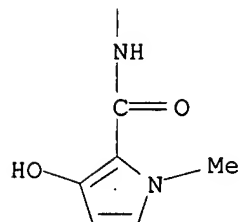
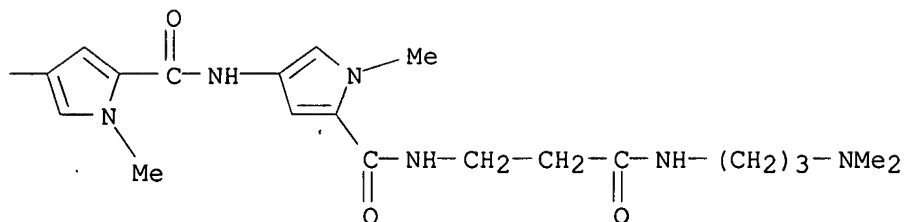
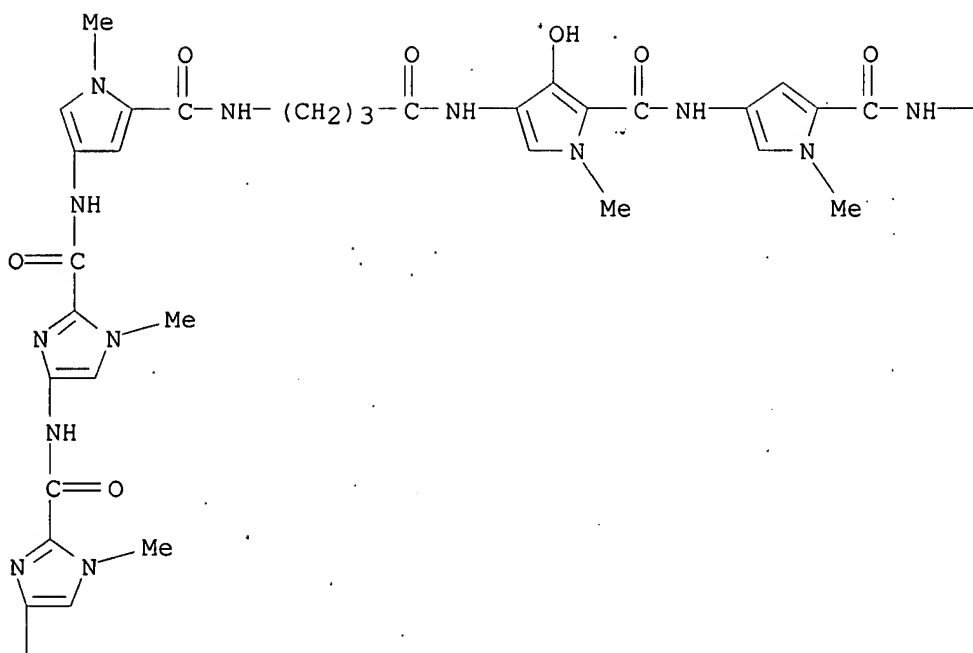
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RN 212182-38-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

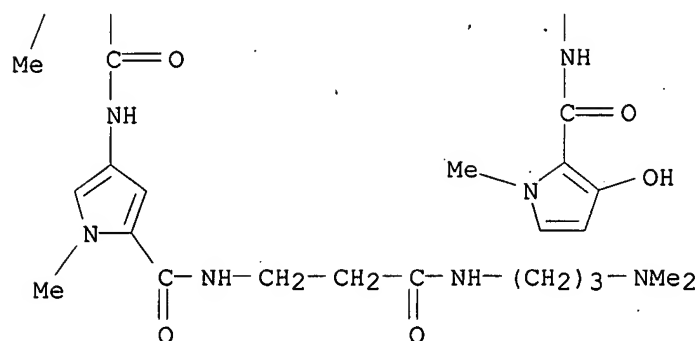
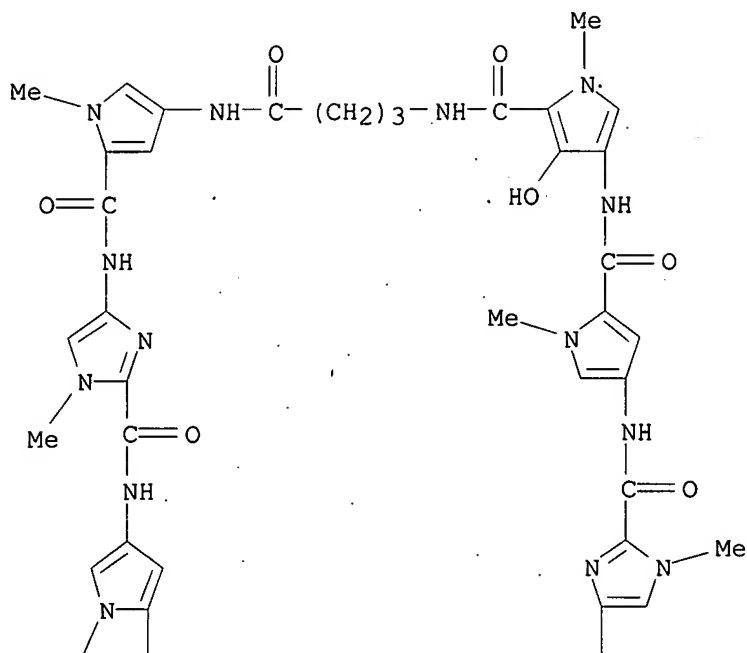


RN 212182-39-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

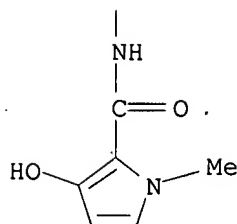
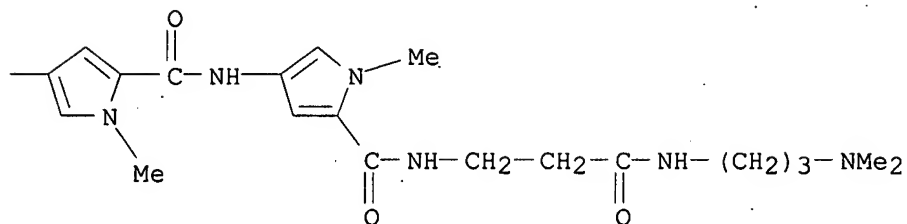
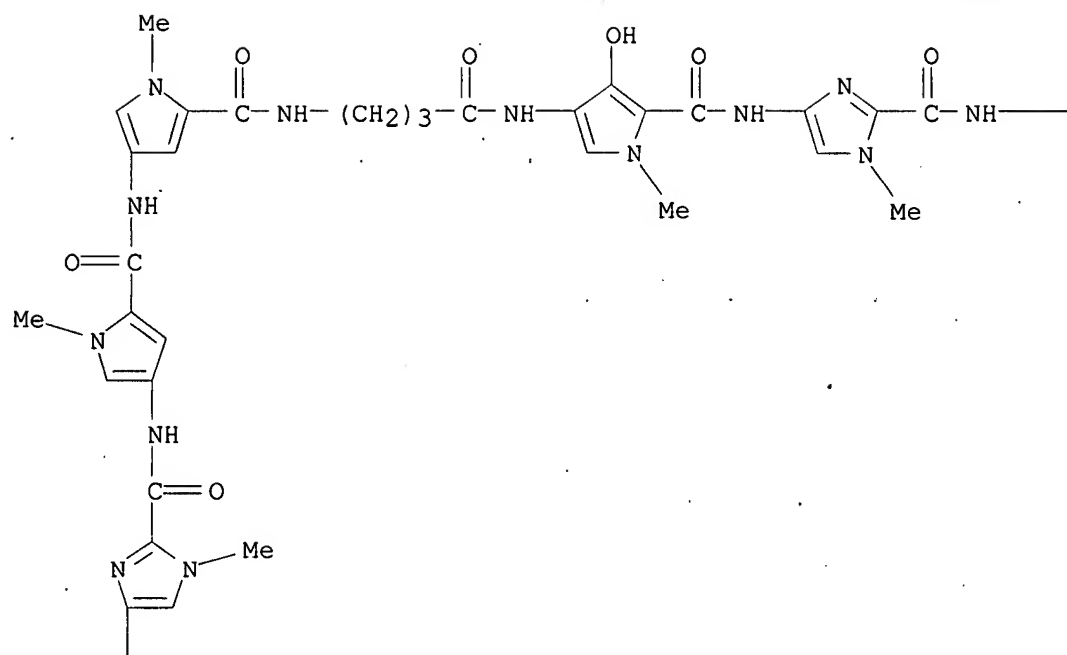


RN 212182-41-7 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)





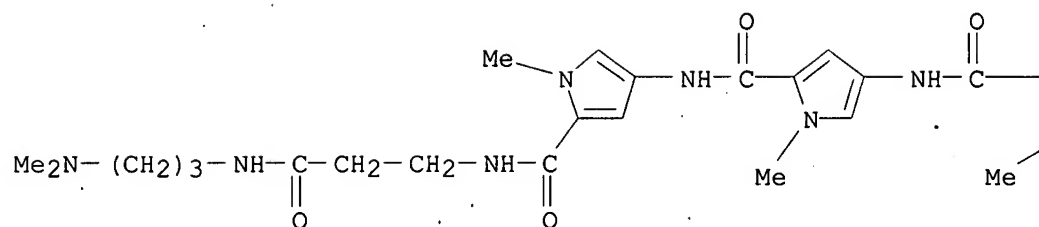
RN 212182-43-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



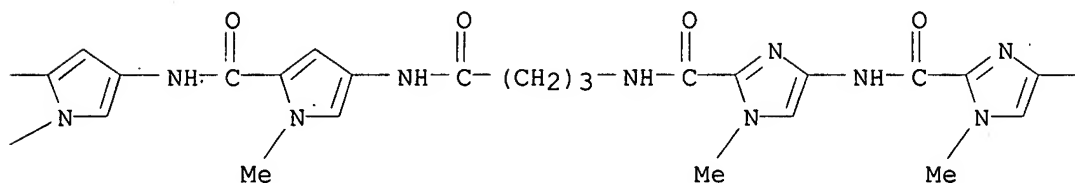
RN · 212182-45-1 CAPLUS

CN    β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)    (CA INDEX NAME)

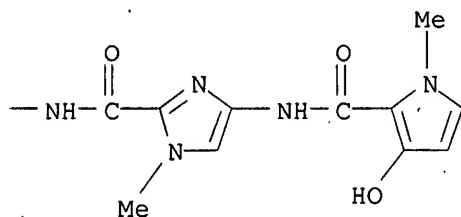
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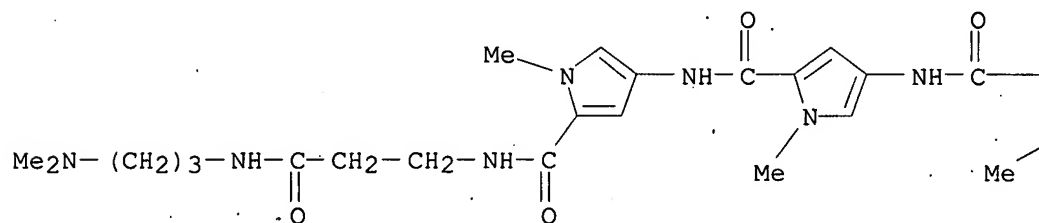


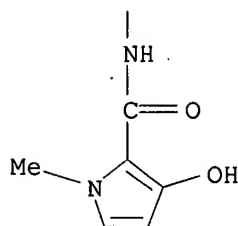
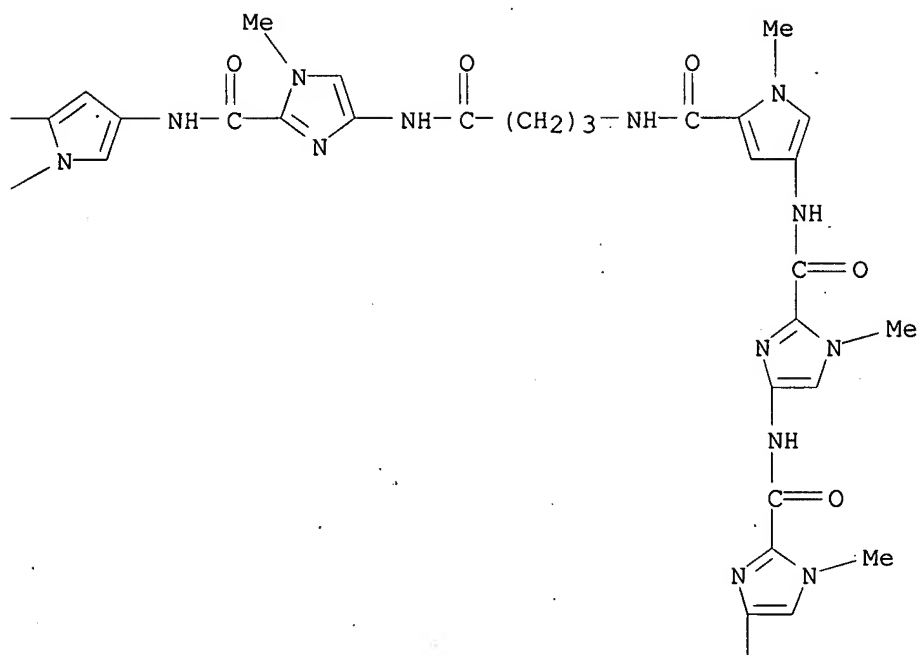
PAGE 1-C



RN 212182-46-2 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

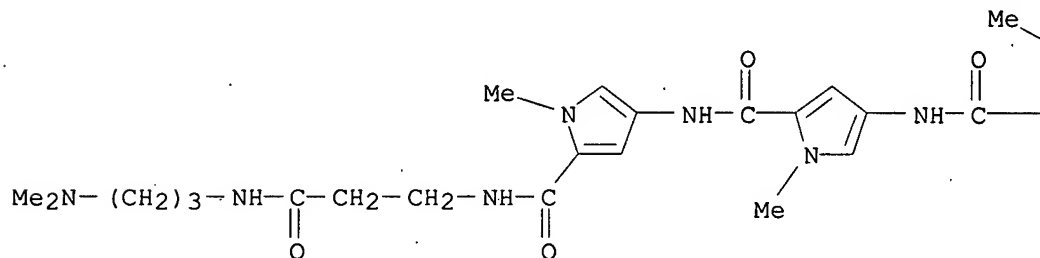
PAGE 1-A

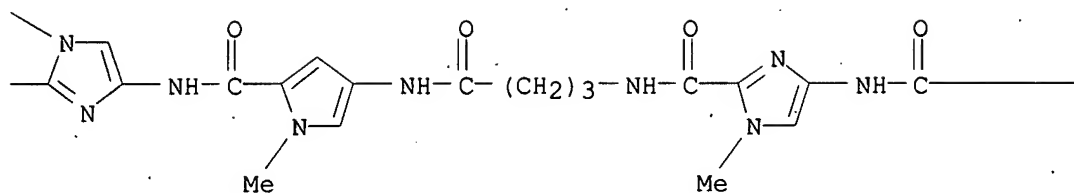




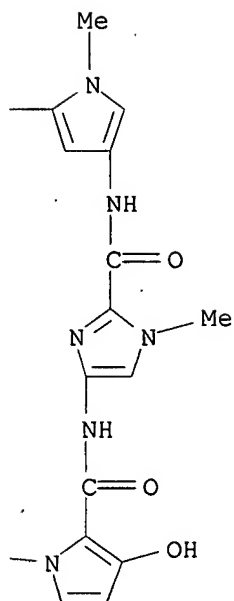
RN 212182-48-4. CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)





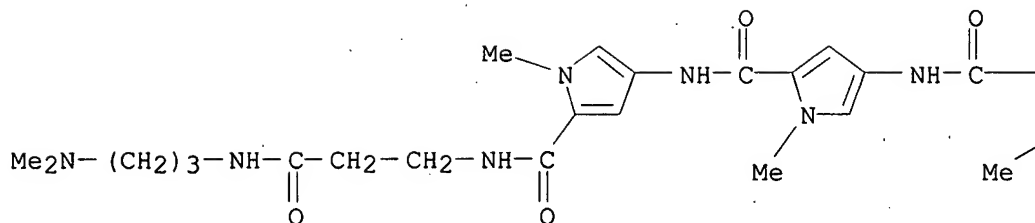
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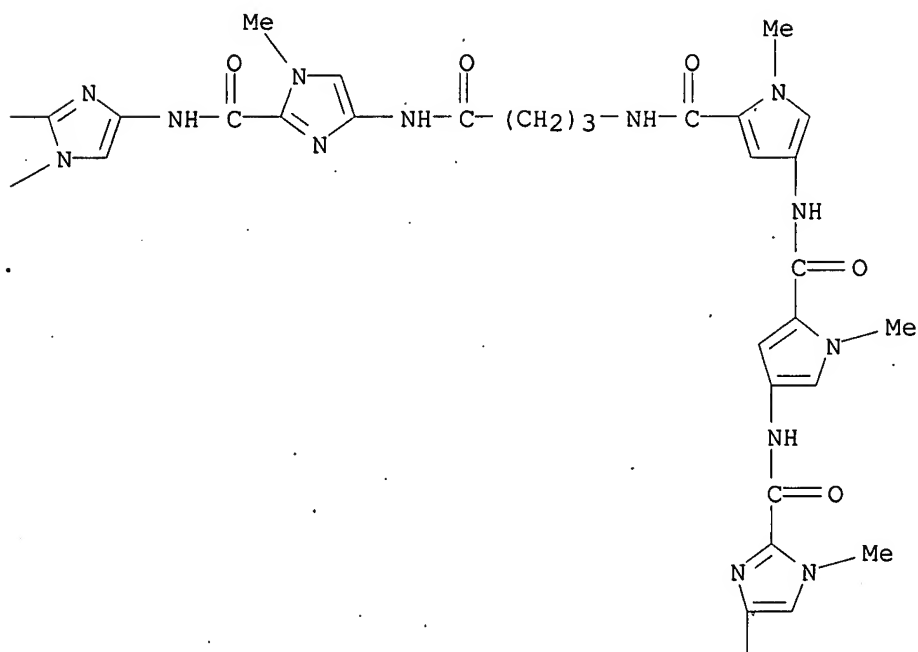
RN 212182-49-5 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

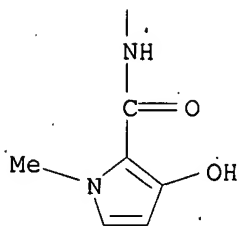
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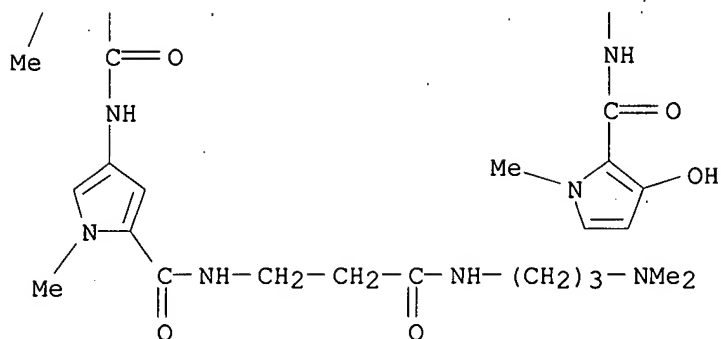
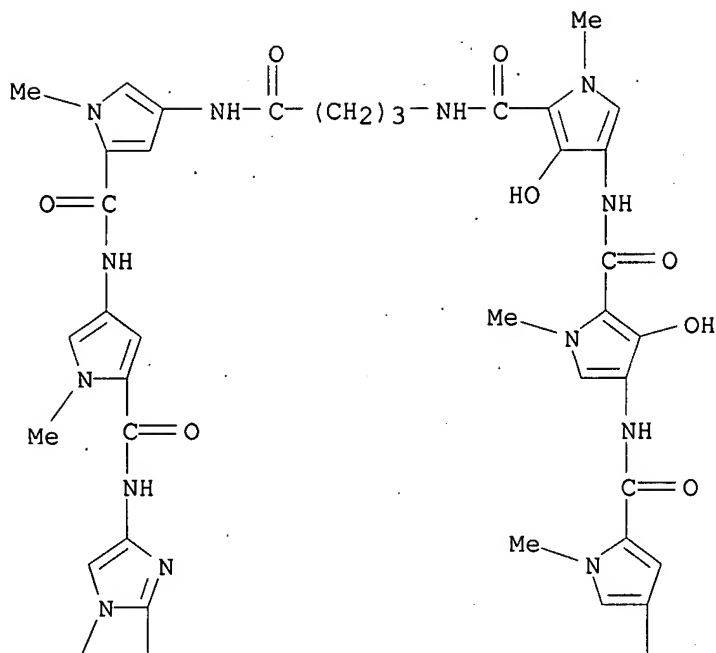


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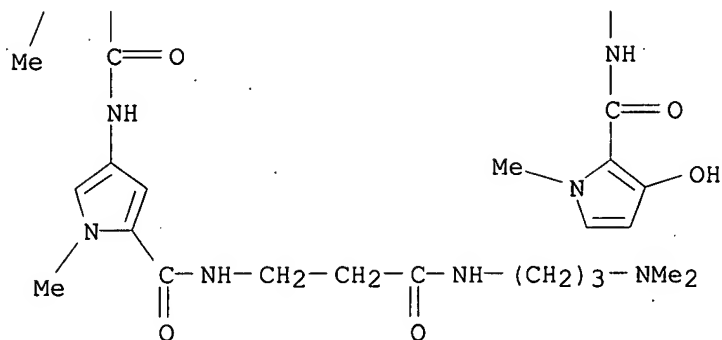
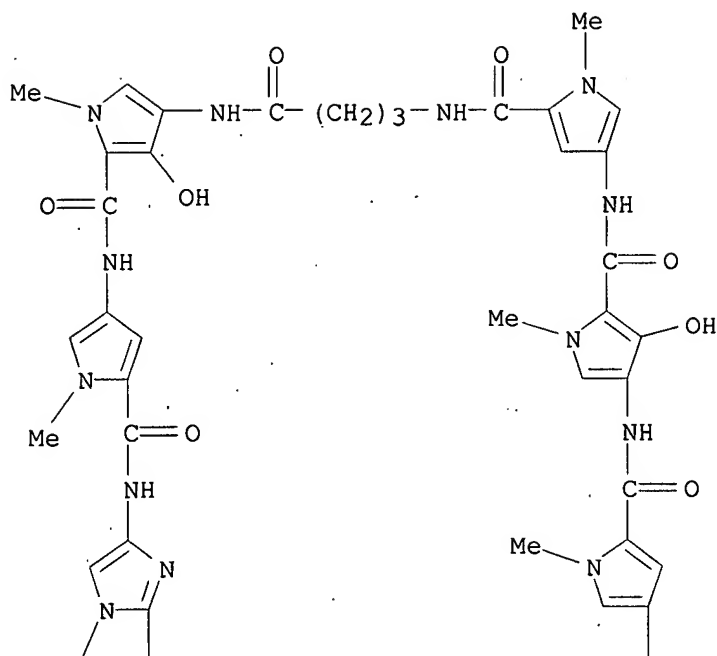


RN 212182-50-8 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

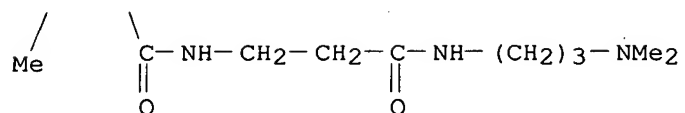
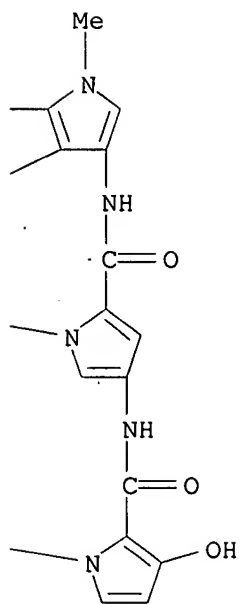
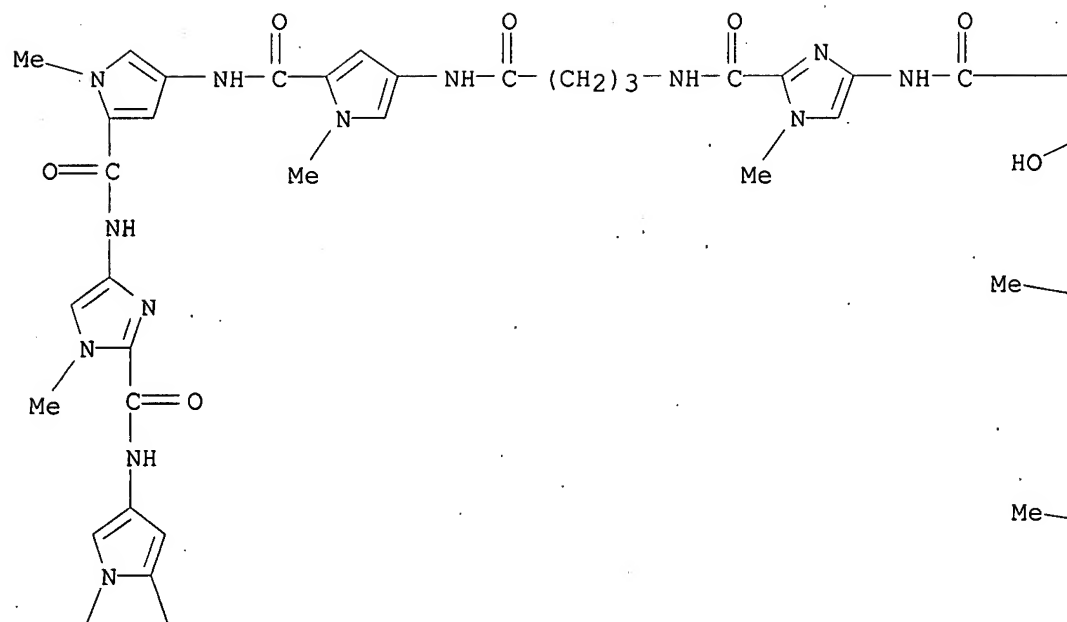


RN 212182-51-9 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



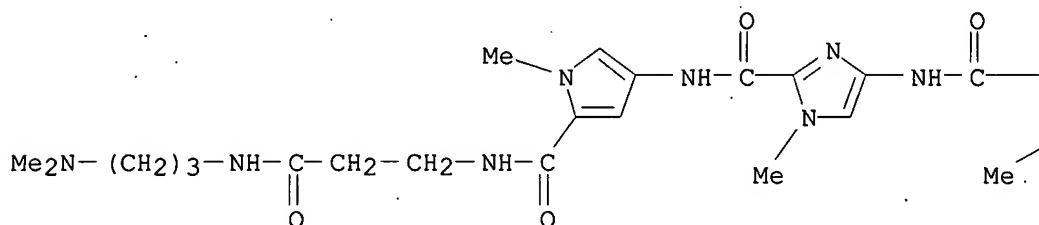
RN 212182-52-0 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



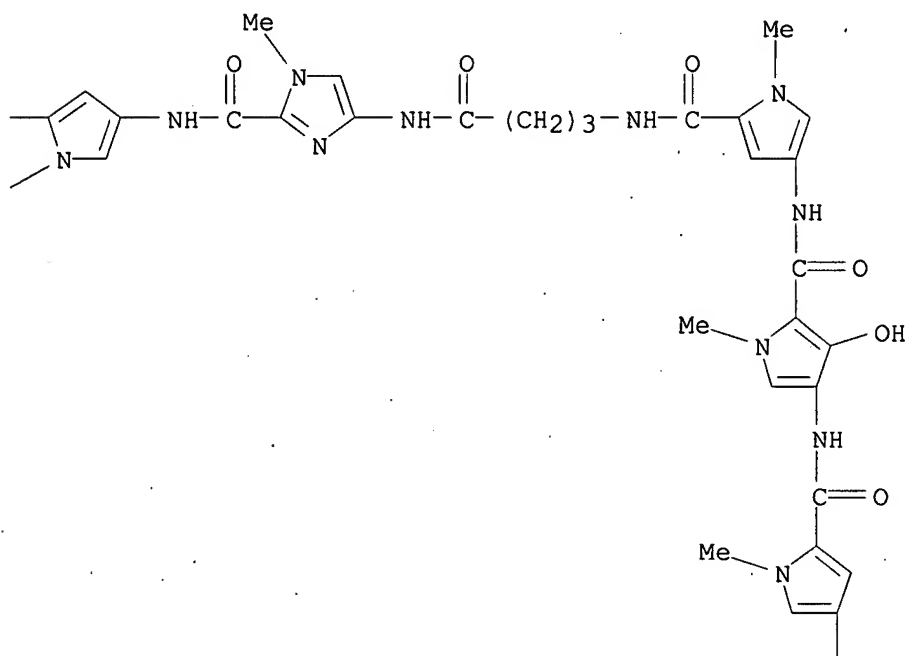


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

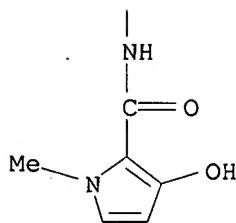
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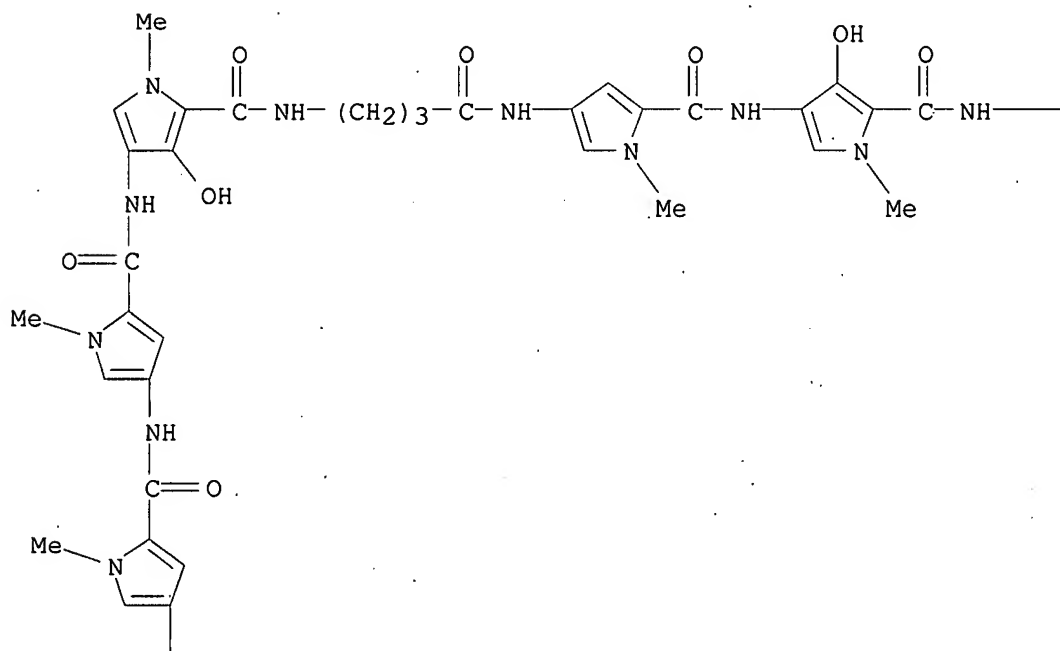


RN 212182-54-2 CAPLUS

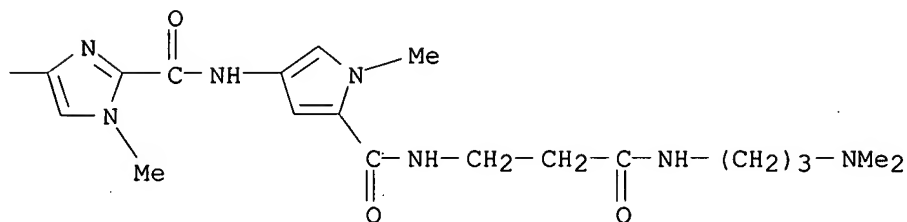
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-

1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

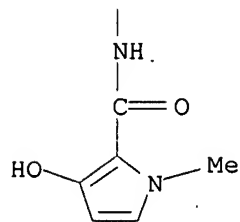
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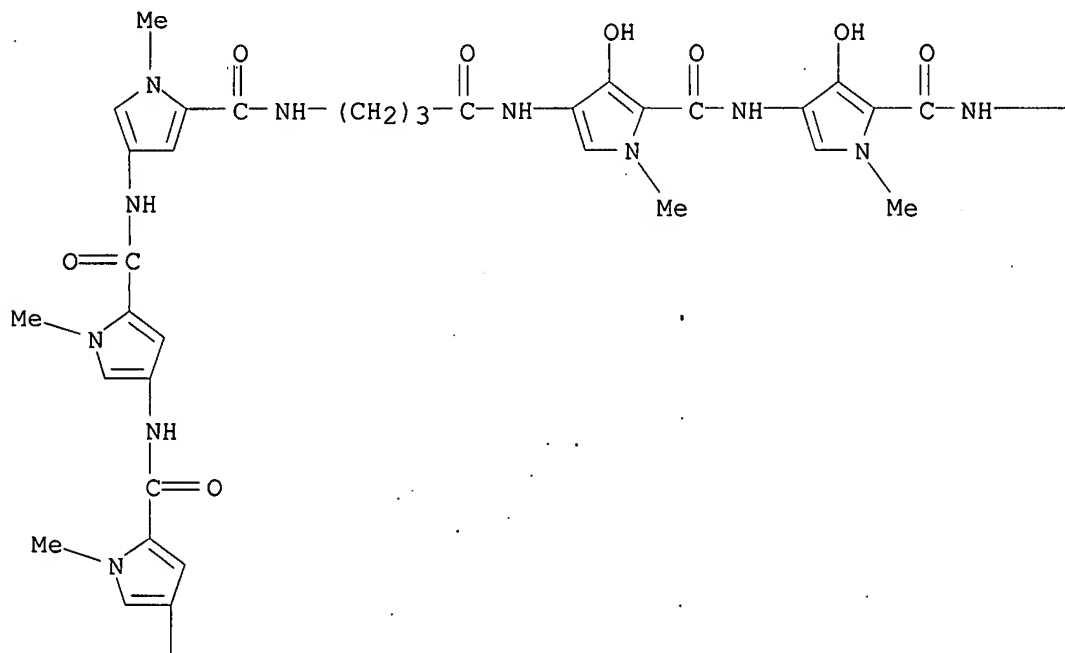
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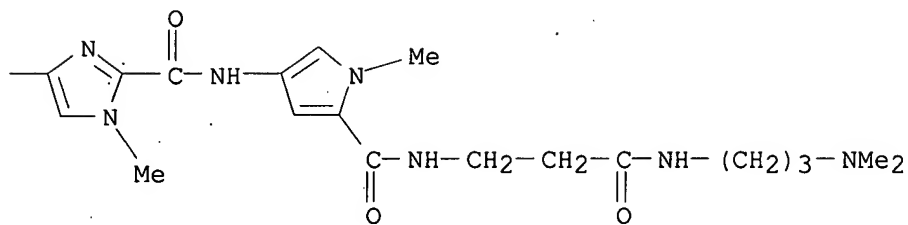
RN 212182-55-3 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-

amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

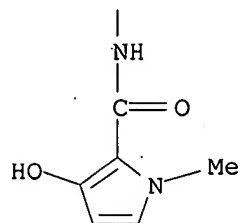
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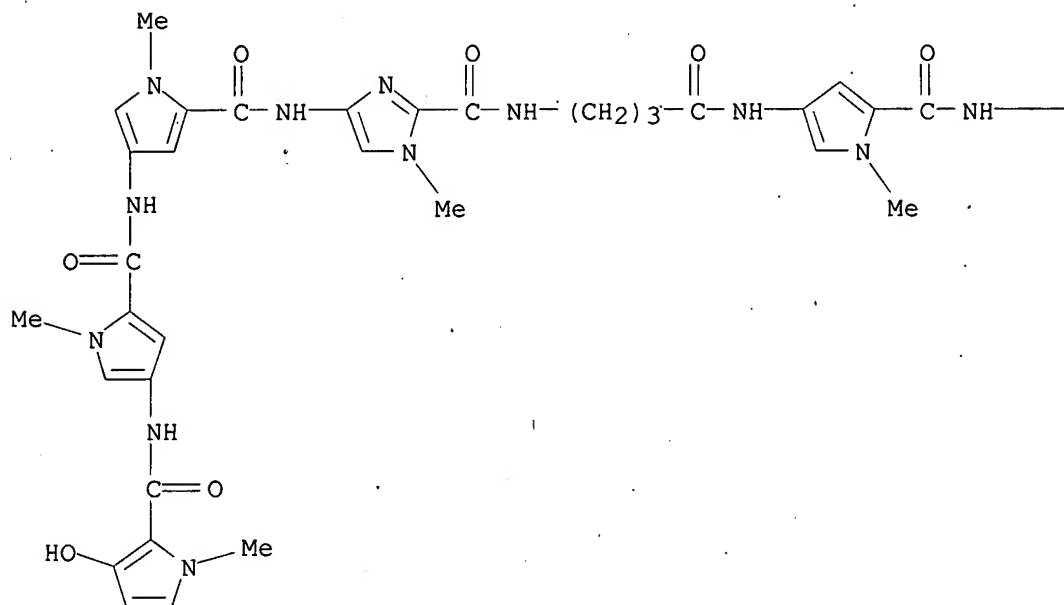
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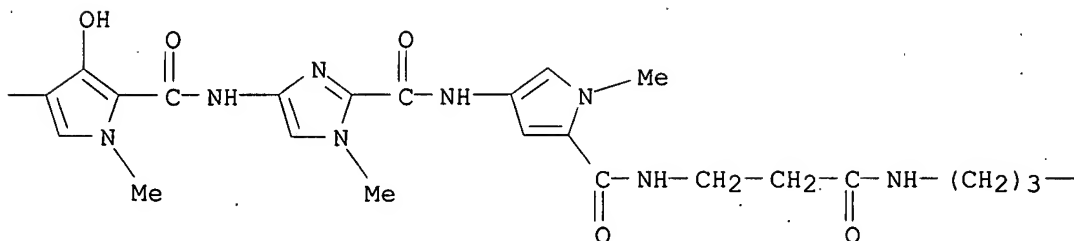
RN 212182-56-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-

pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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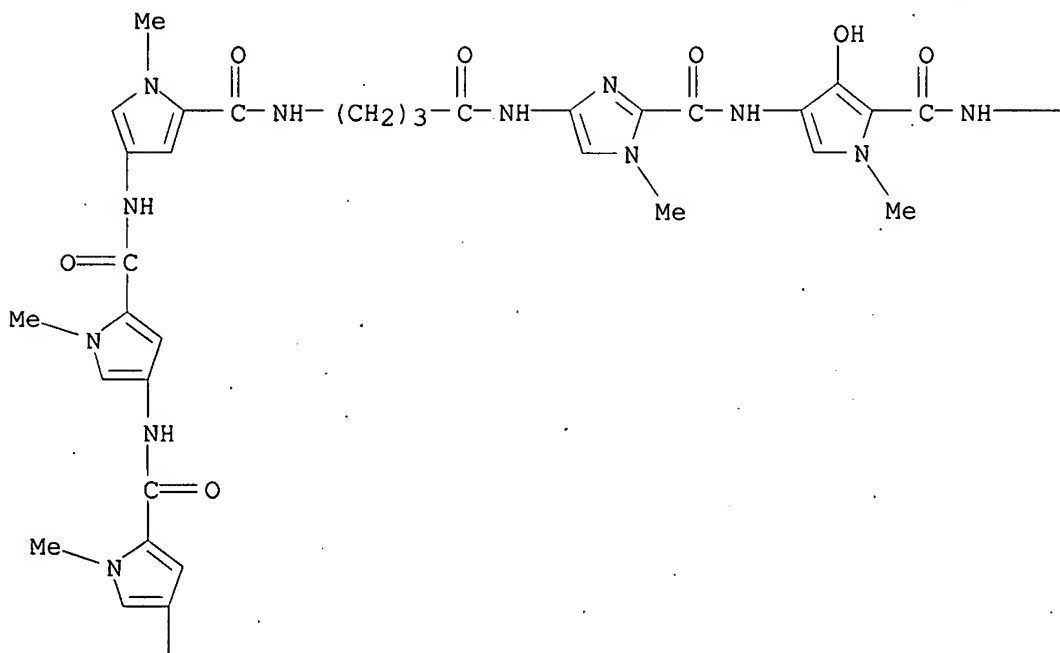


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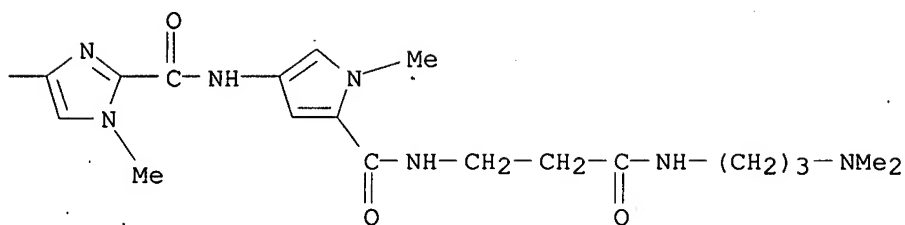
— NMe<sub>2</sub>

RN 212182-57-5 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

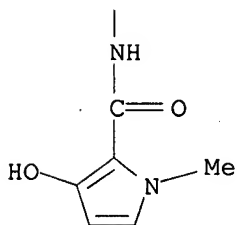
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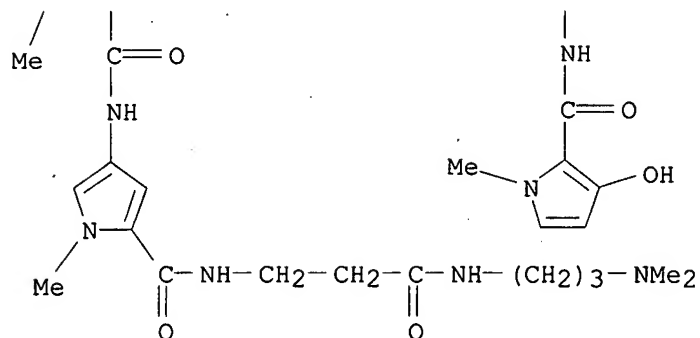
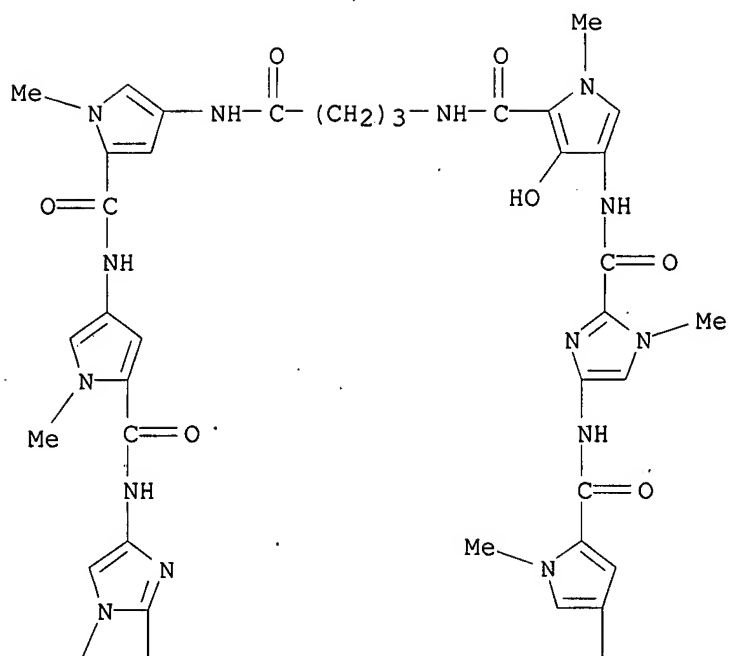
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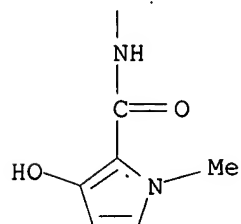
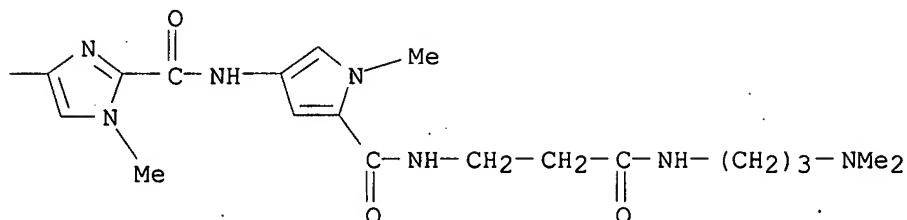
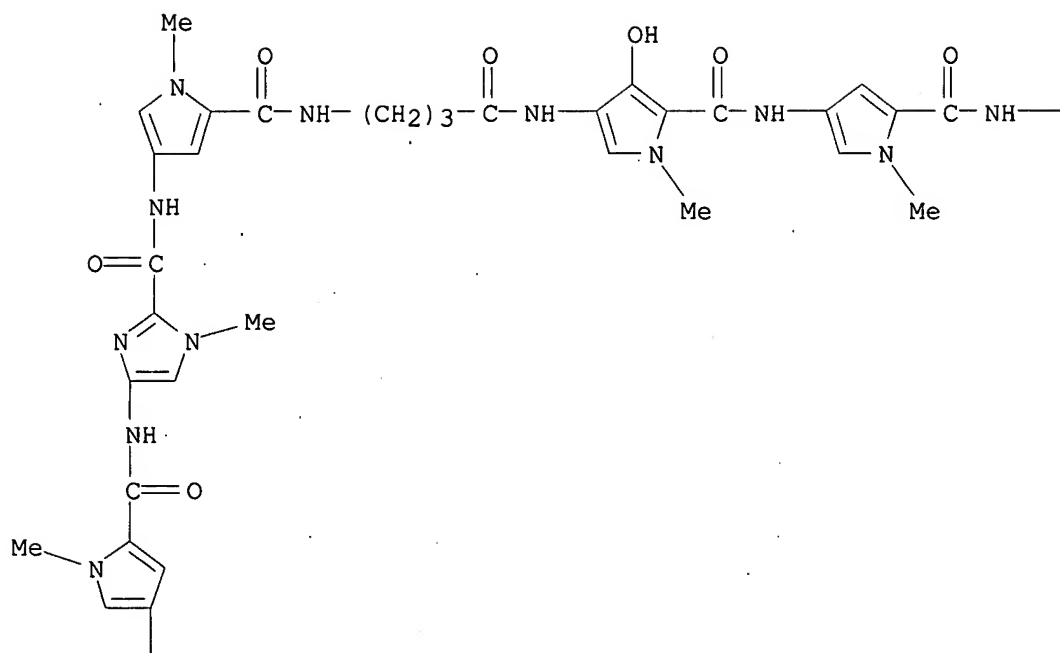
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RN 212182-58-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

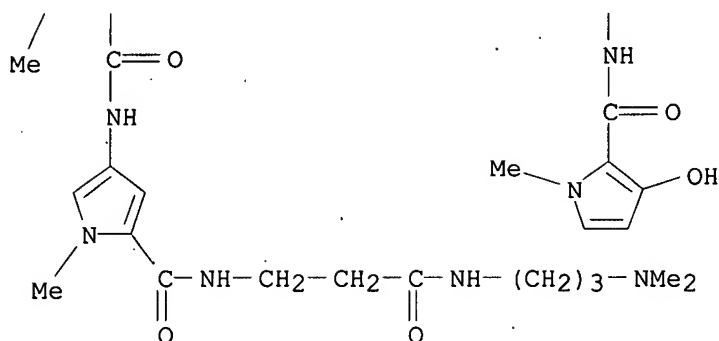
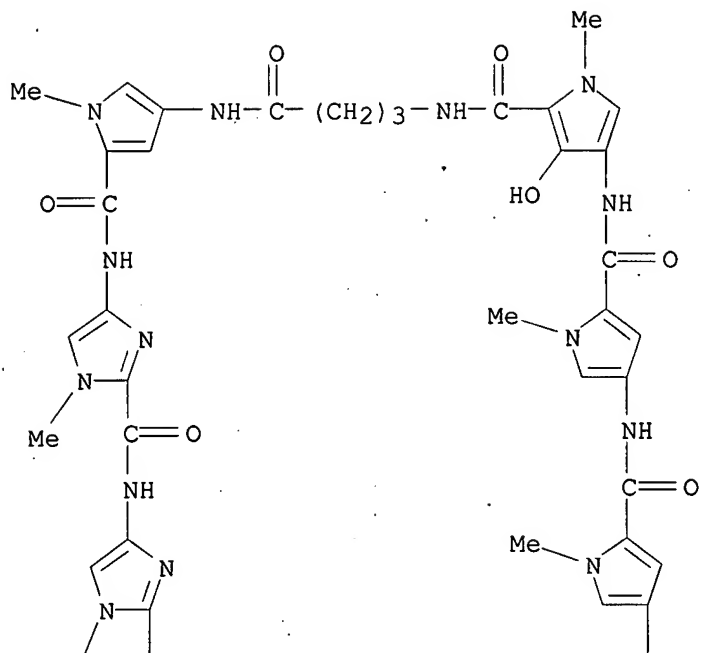


RN 212182-59-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

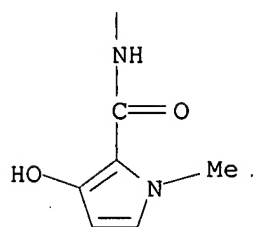
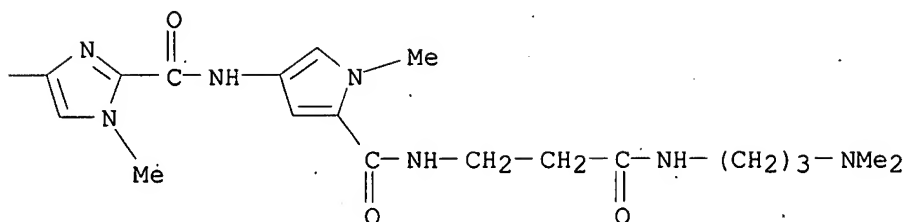
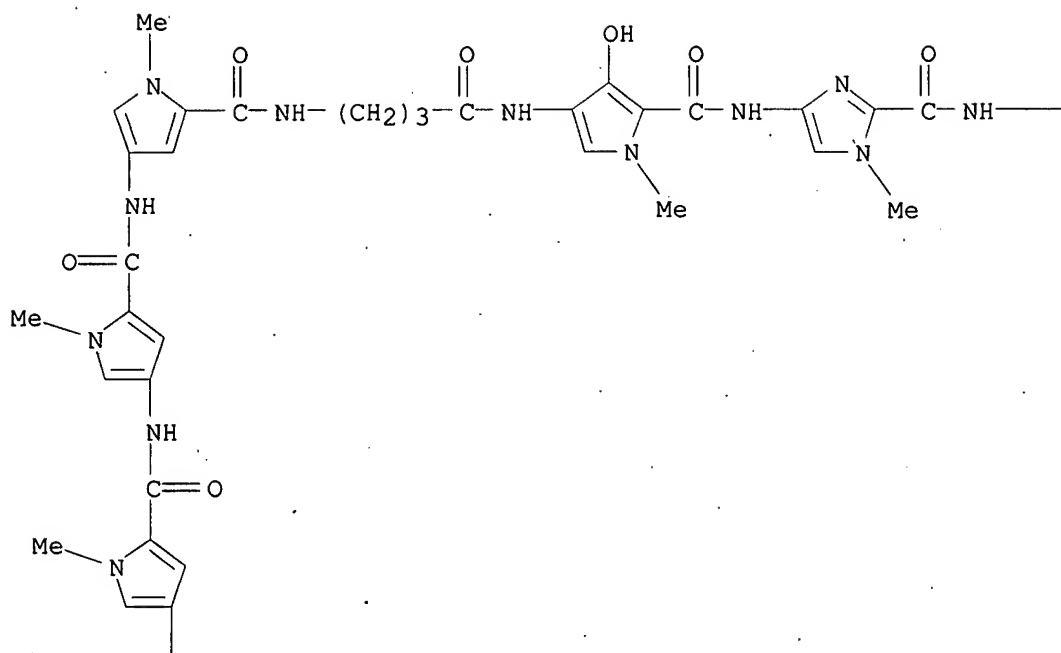


RN 212182-60-0 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



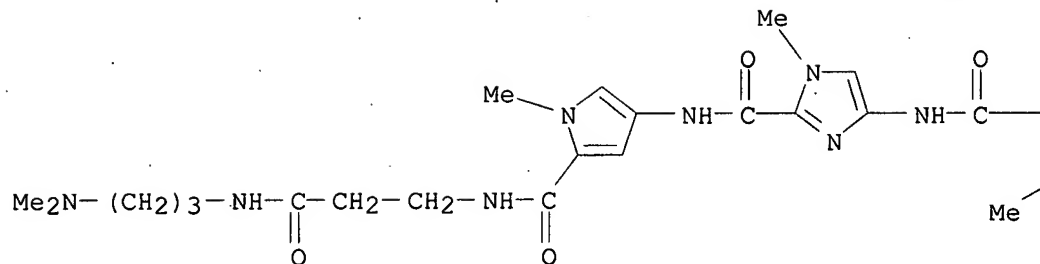


RN 212182-61-1 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

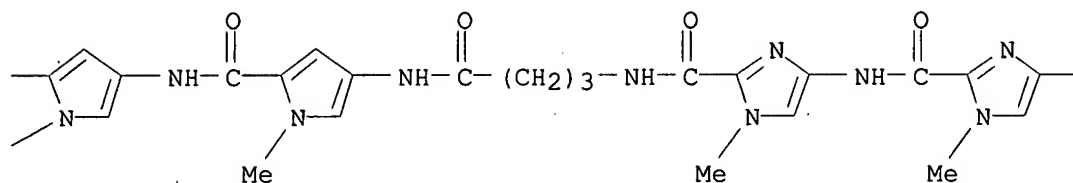


RN 212182-62-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME).

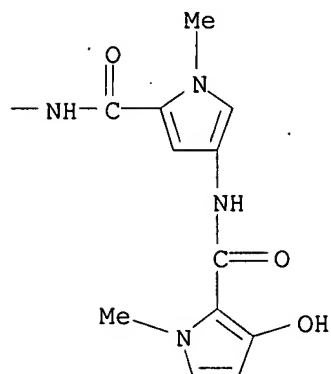
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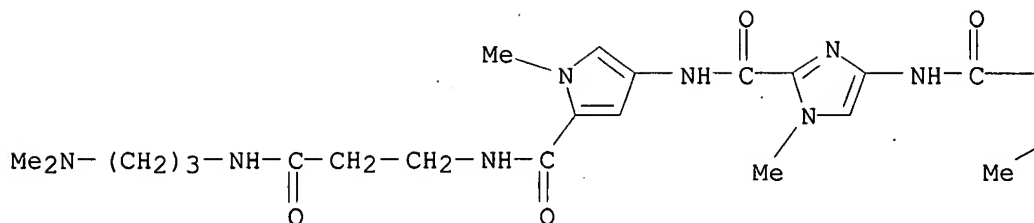


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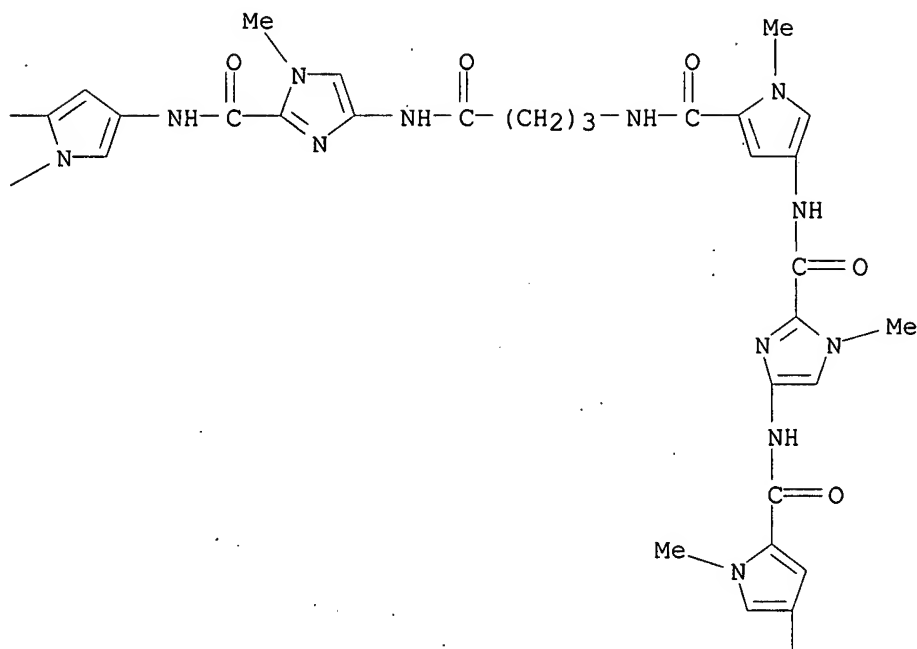


RN 212182-63-3 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

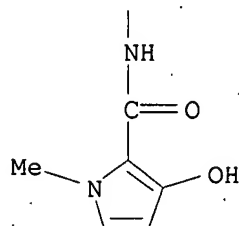
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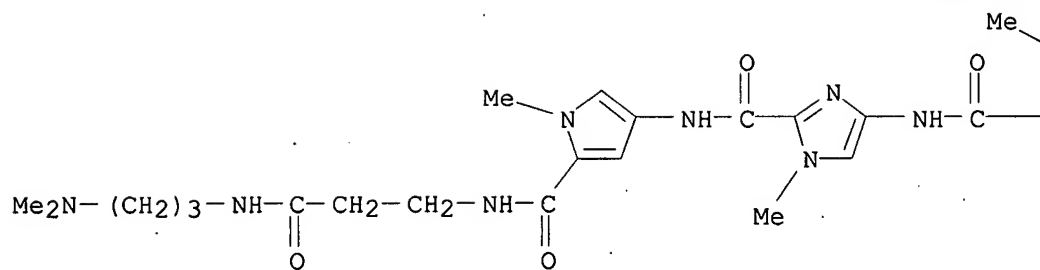


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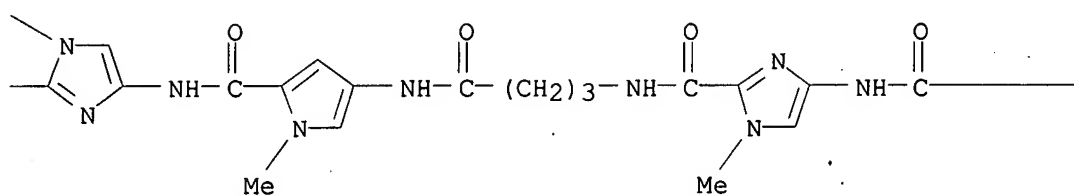


RN 212182-64-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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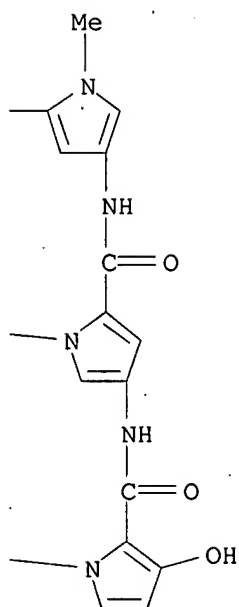


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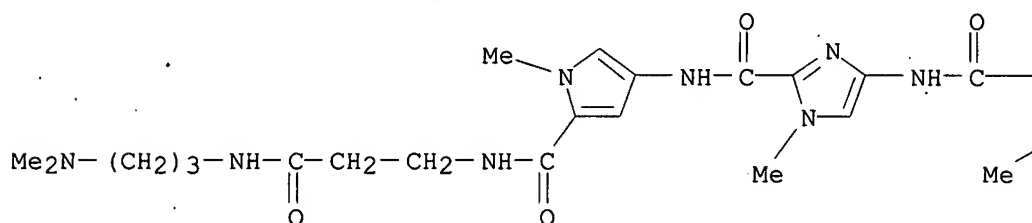
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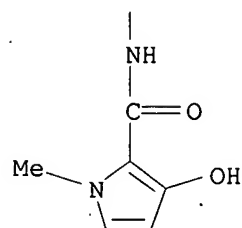
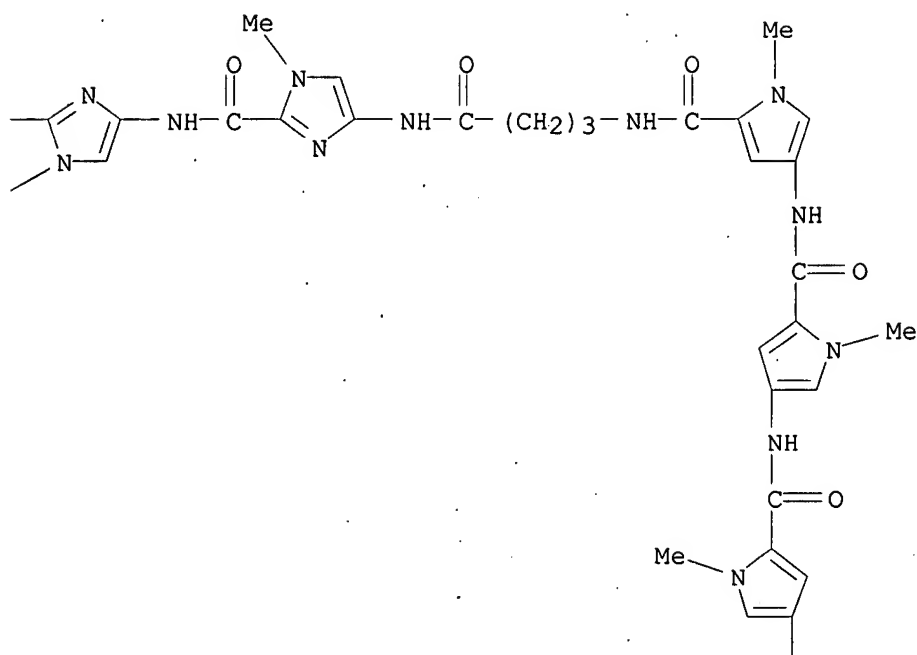
Me



RN 212182-65-5 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

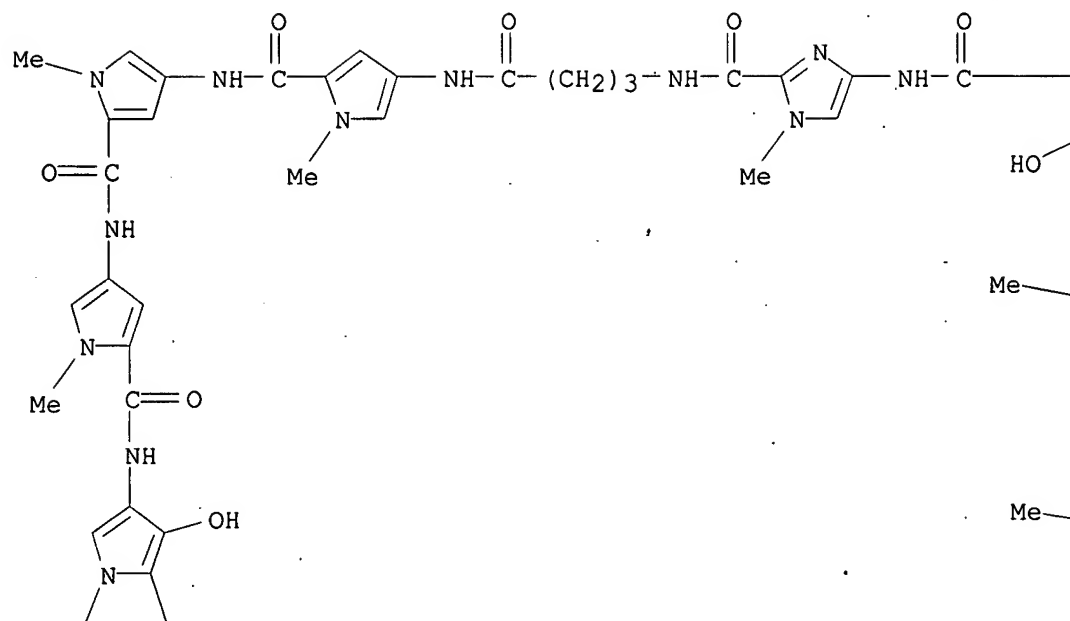




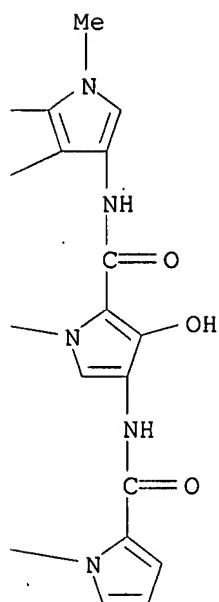
RN 212182-68-8 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

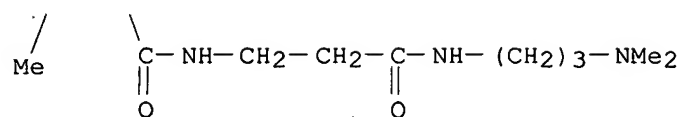
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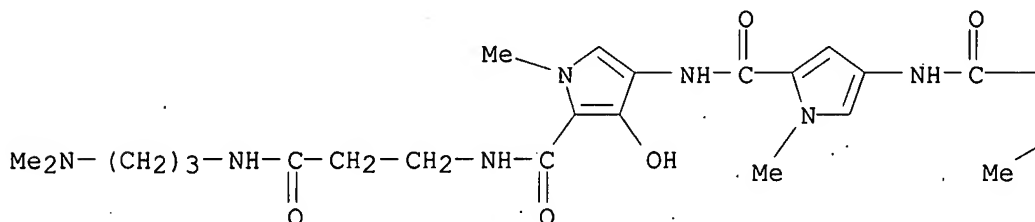
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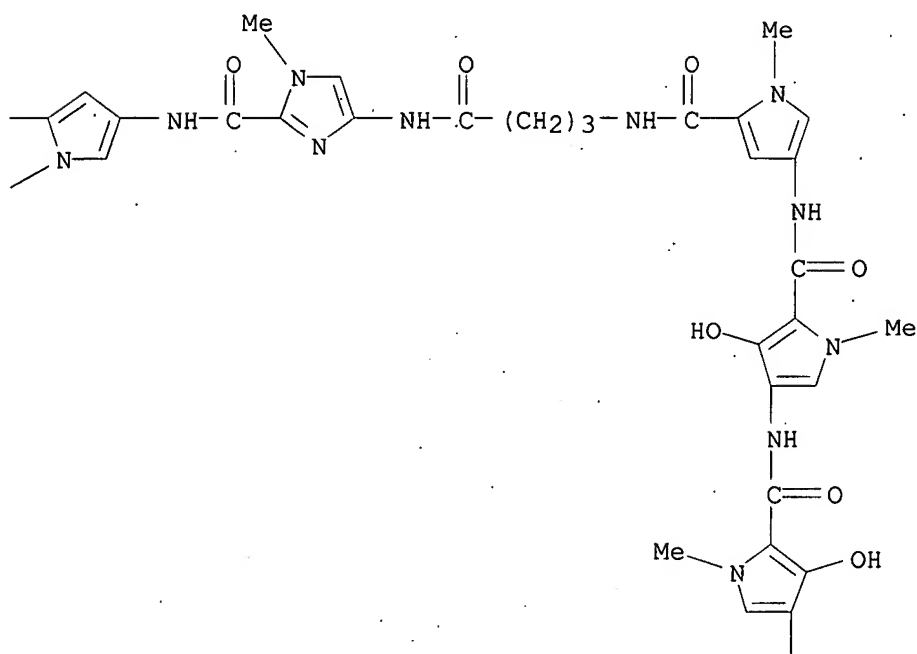


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

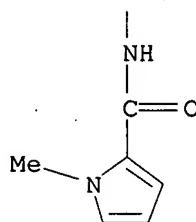
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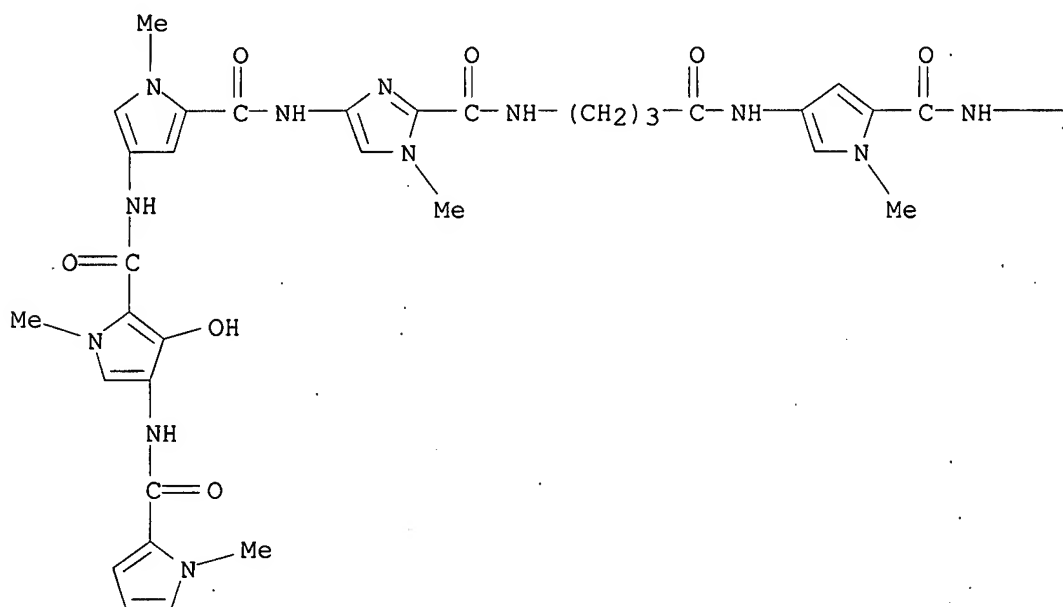


RN 212182-72-4 CAPLUS

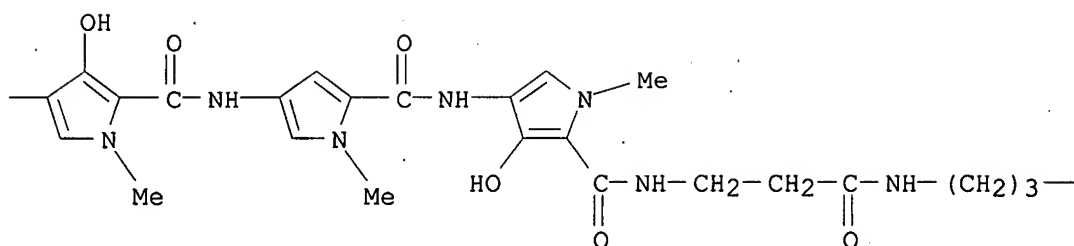
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-

1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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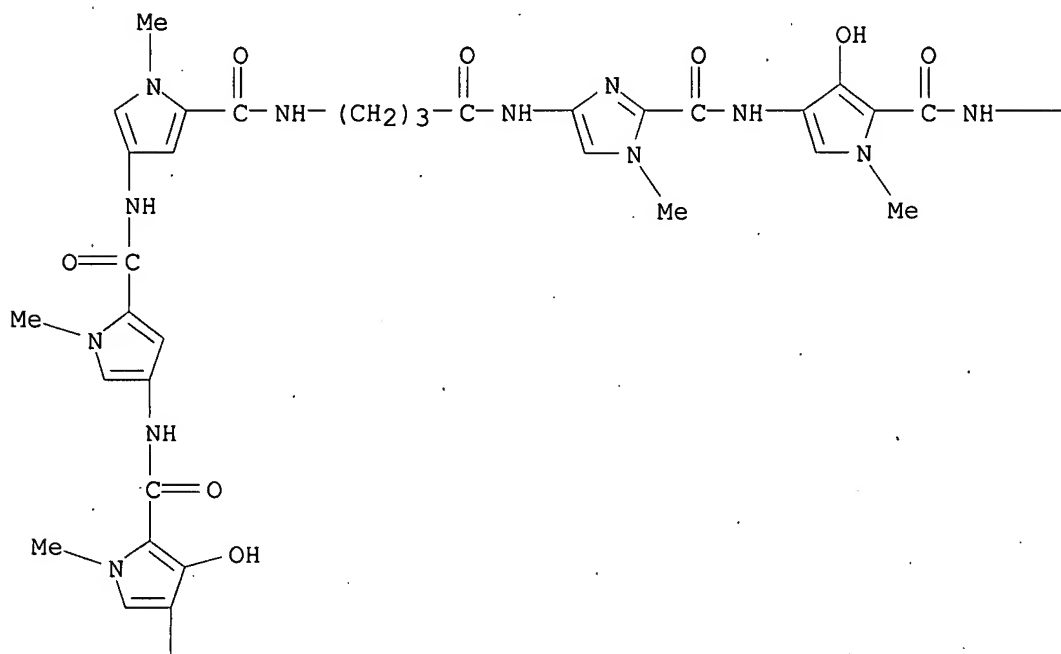
— NMe<sub>2</sub>

RN 212182-73-5 CAPLUS

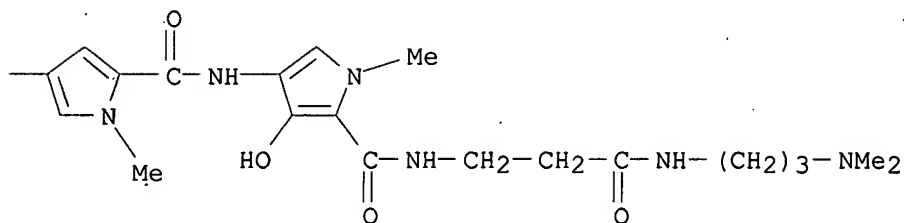
CN β-Alaninamide, 2,3,4,5-tetrahydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-

amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

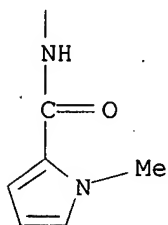
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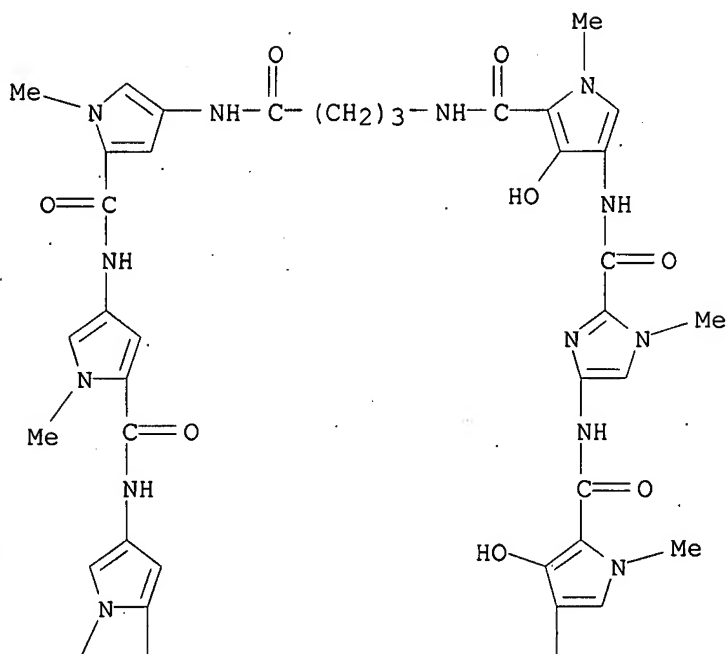
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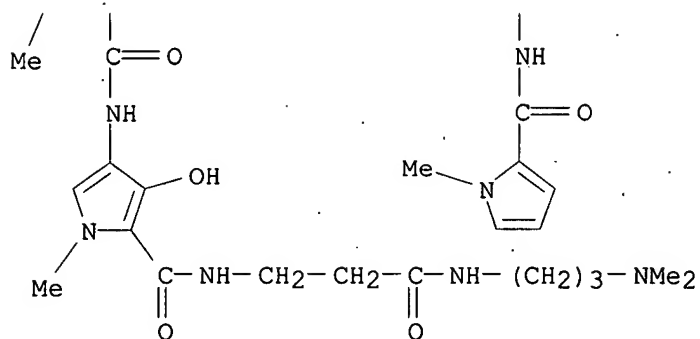
RN	212182-74-6	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-	

2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

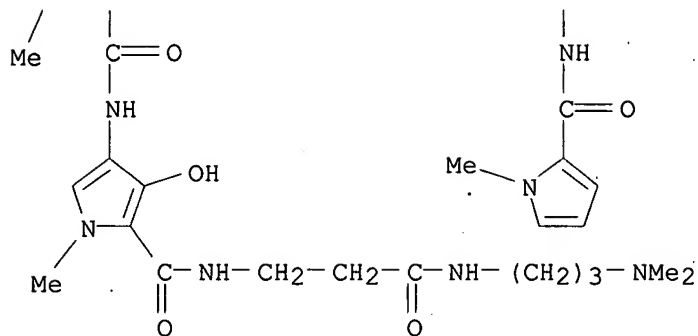
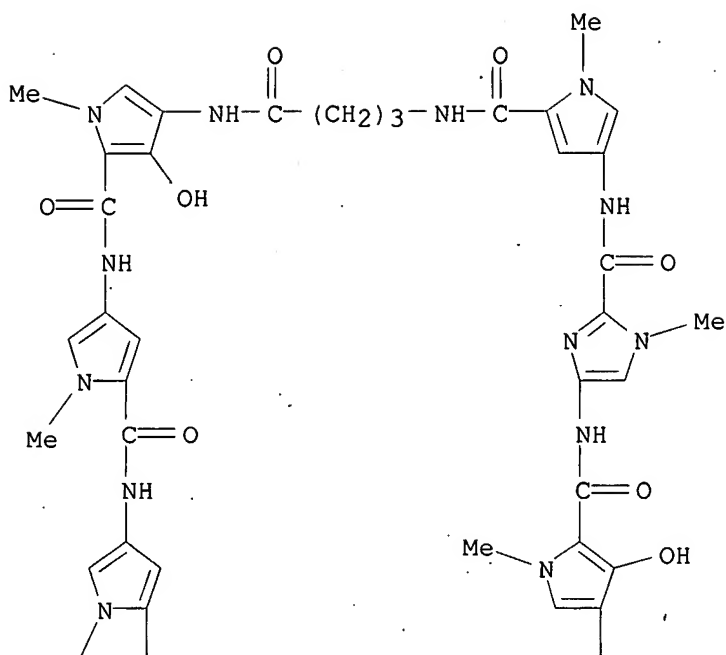
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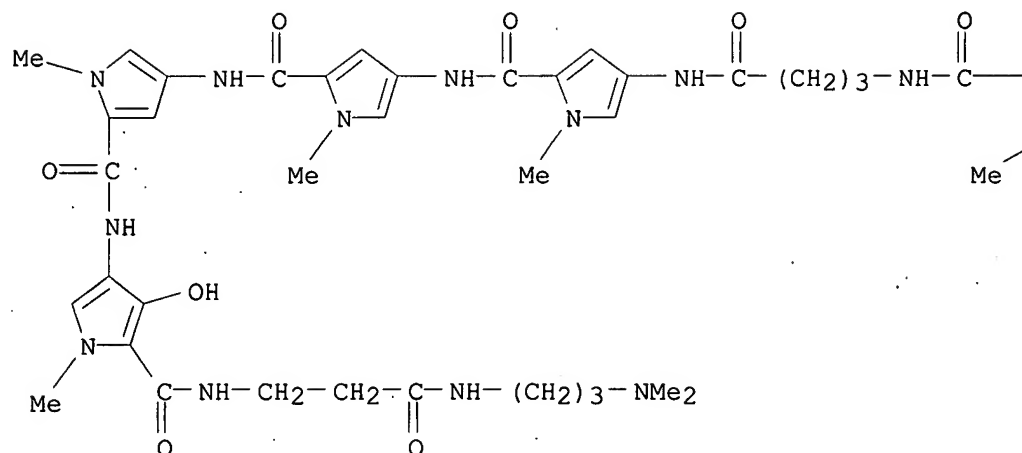


RN 212182-75-7 CAPLUS  
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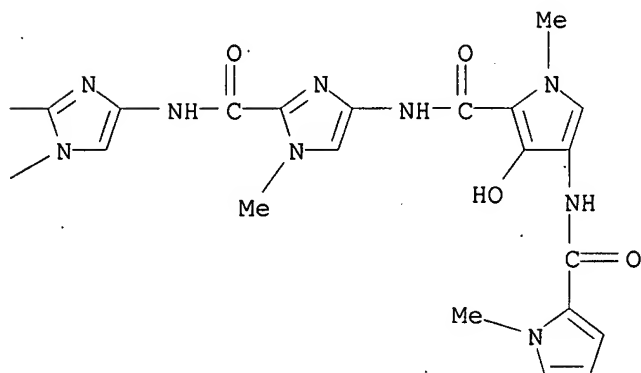


RN 212182-76-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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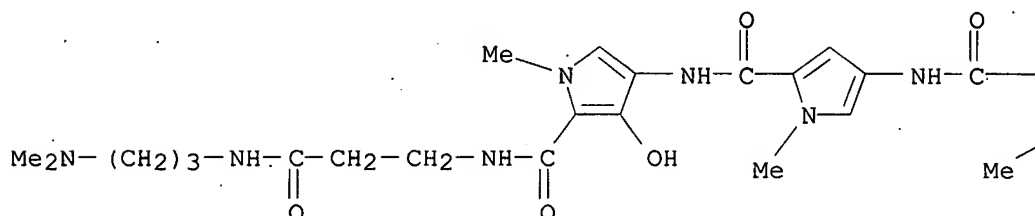
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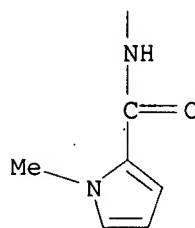
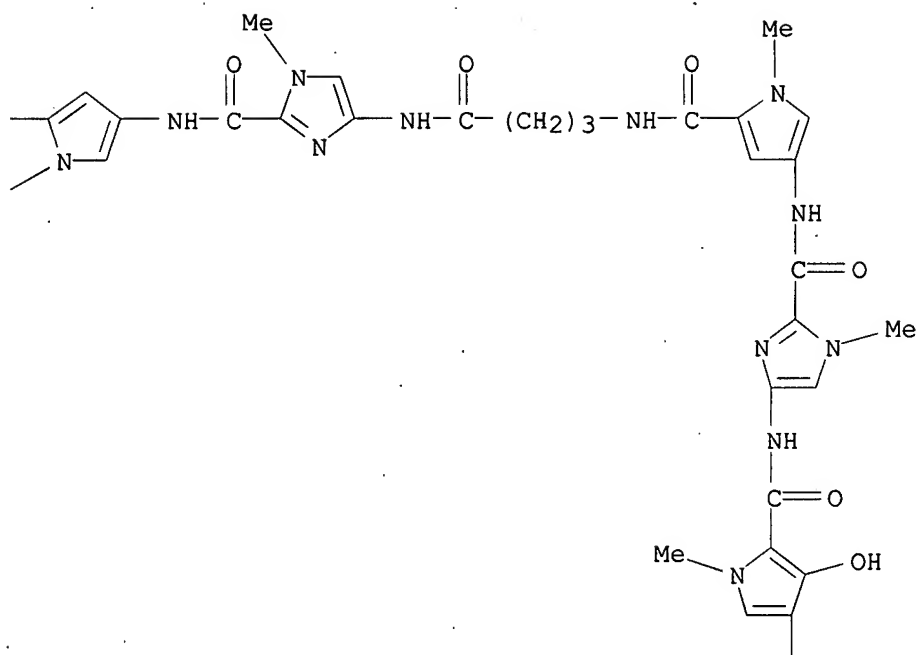


RN 212182-77-9 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

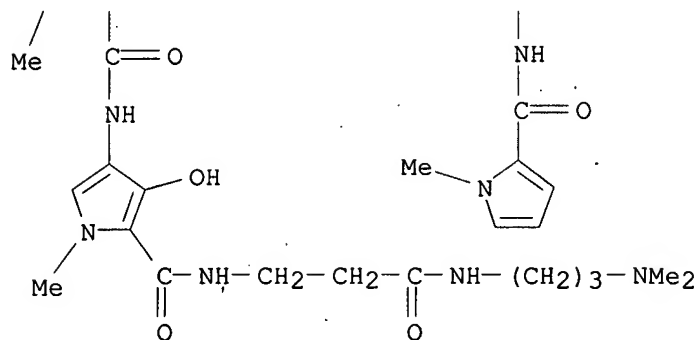
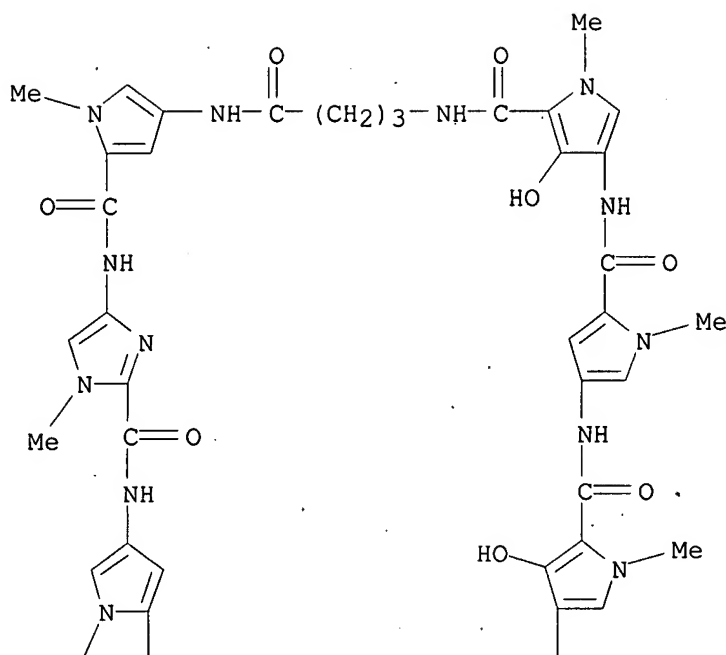
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RN 212182-78-0 CAPLUS

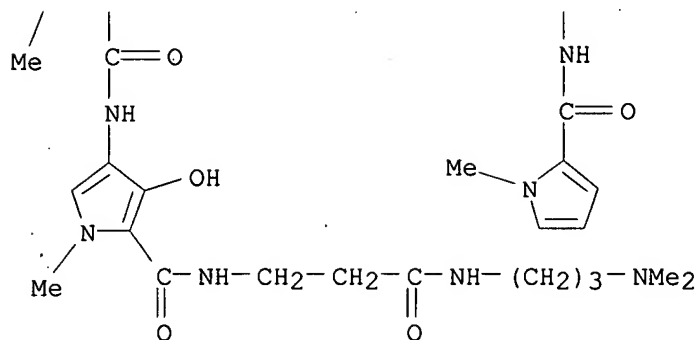
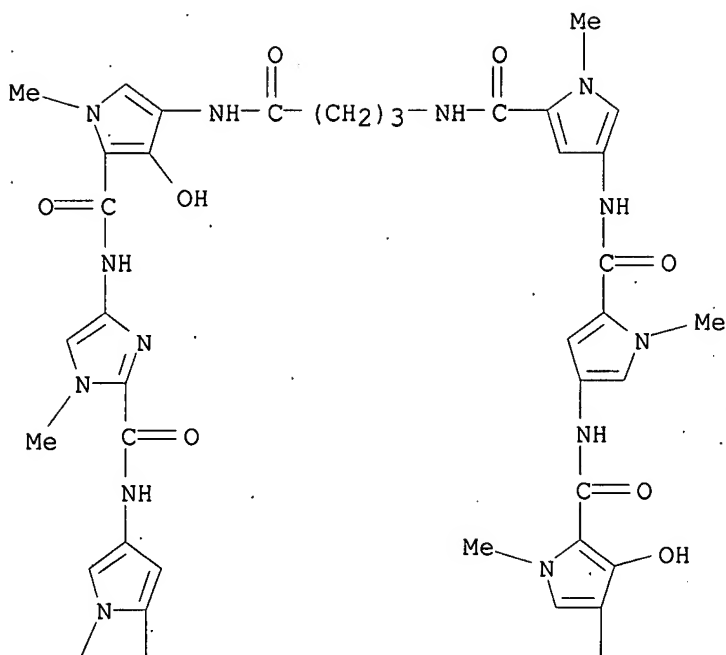
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212182-79-1 CAPLUS

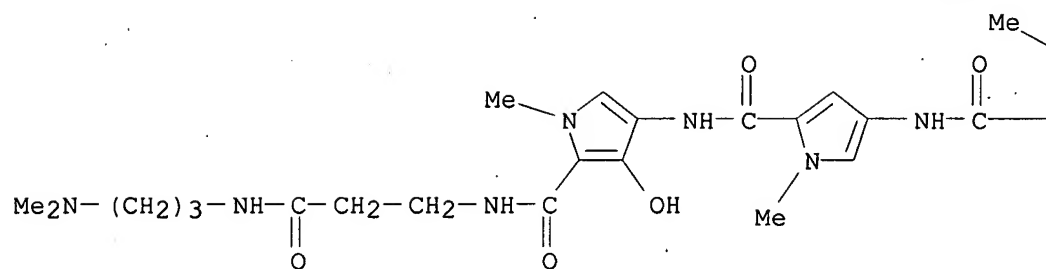
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



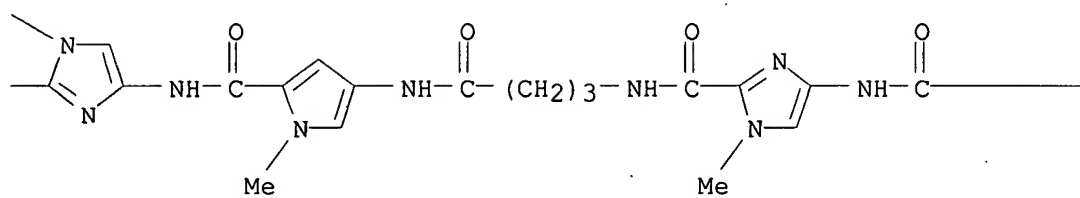


RN 212182-80-4 CAPLUS  
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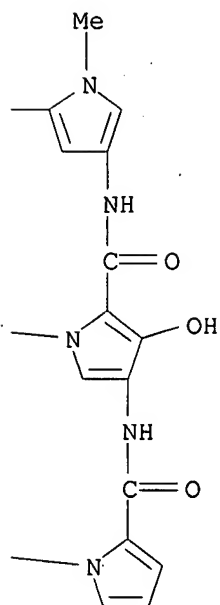


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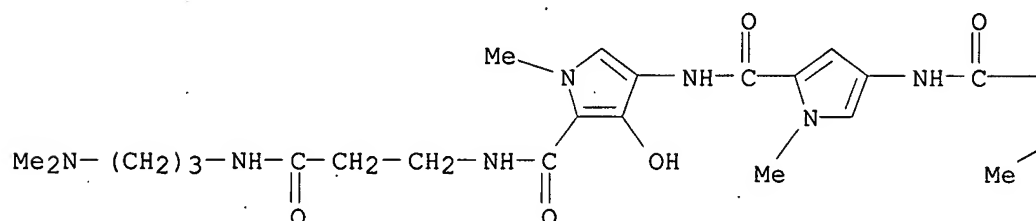
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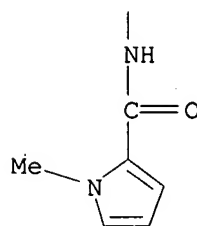
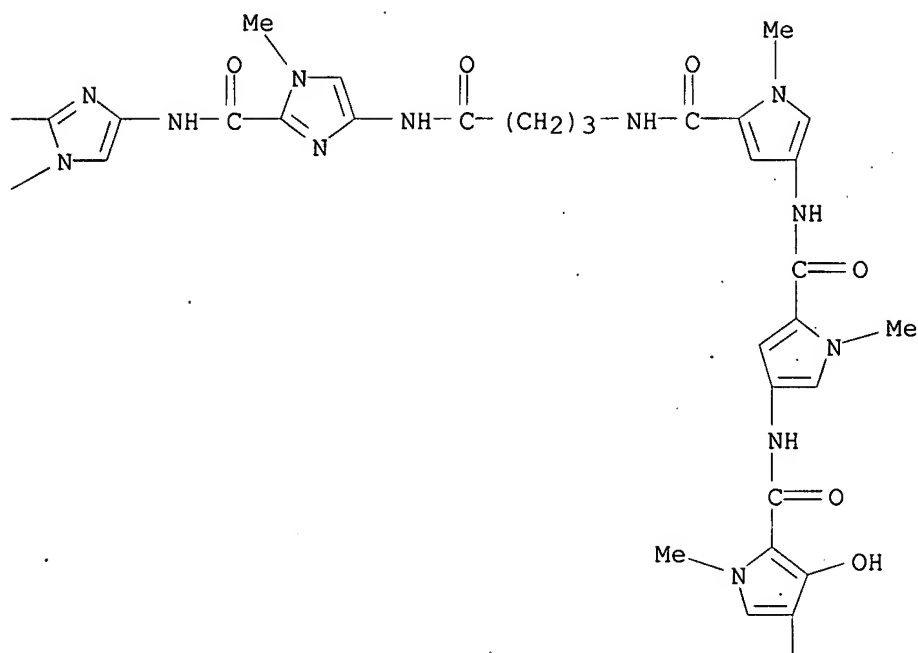
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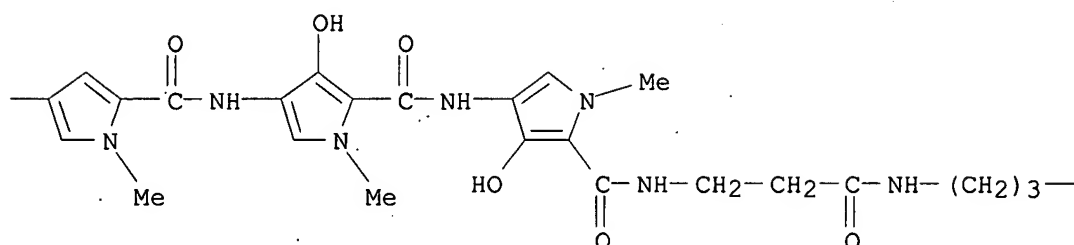
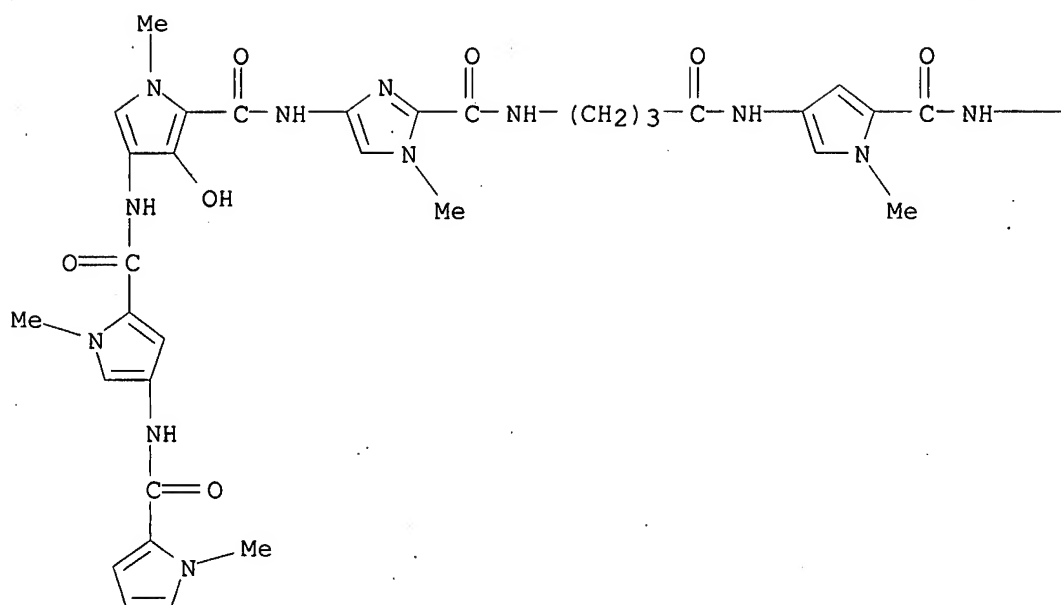
RN 212182-81-5 .CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



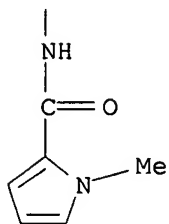
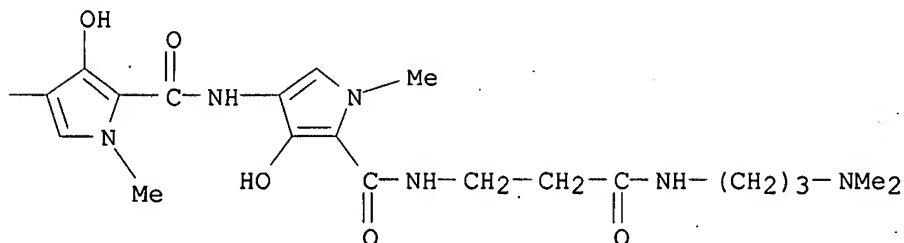
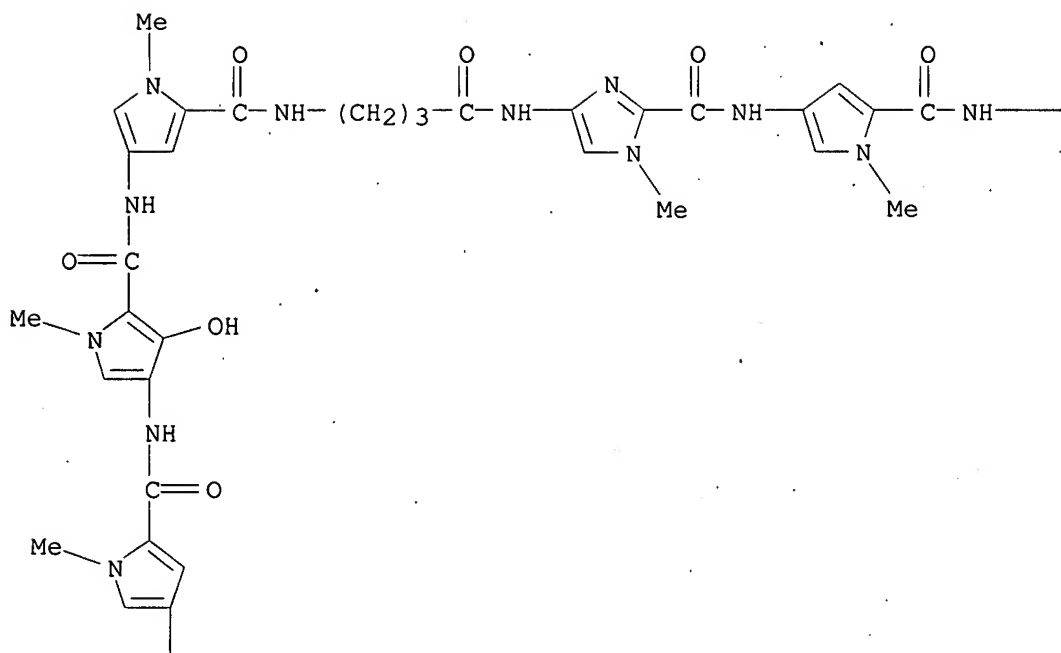


RN 212182-84-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

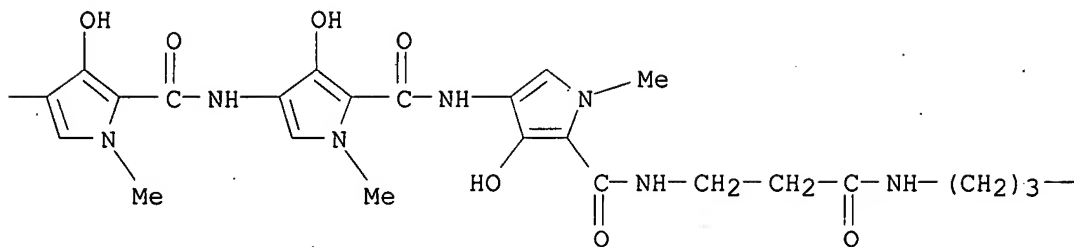
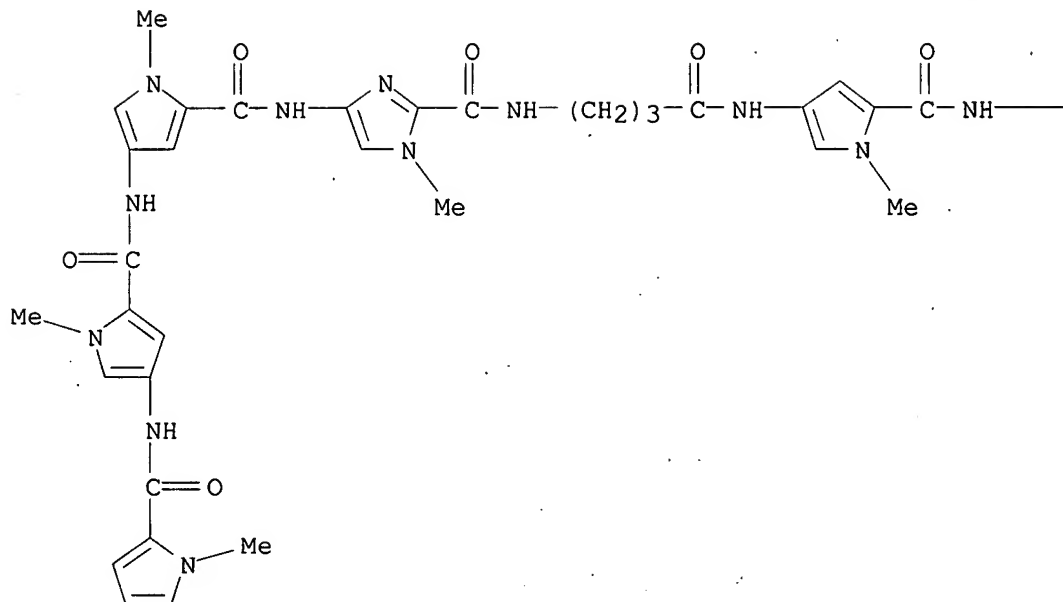
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RN 212182-85-9 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

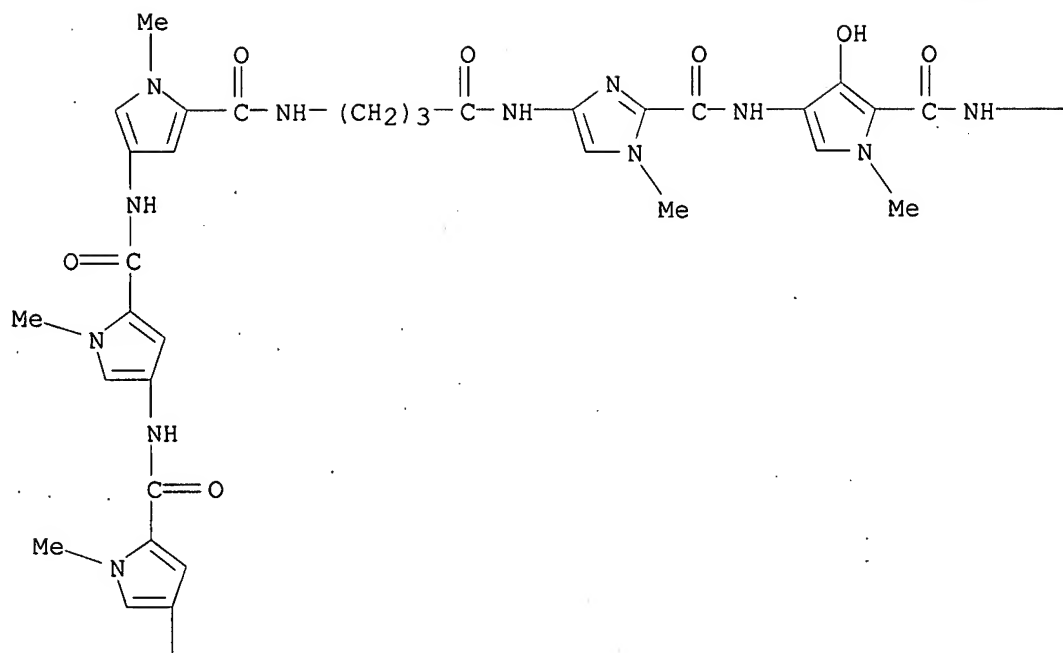


RN 212182-88-2 CAPLUS  
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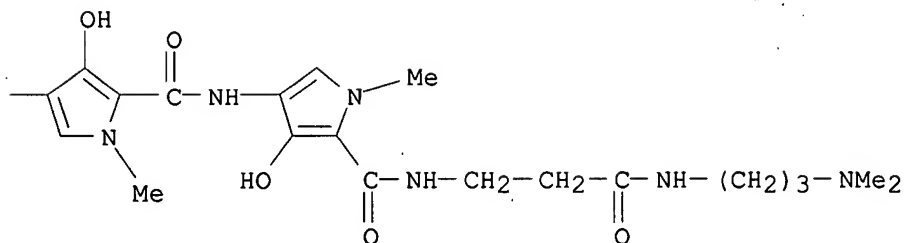
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RN 212182-89-3 CAPLUS  
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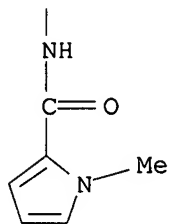
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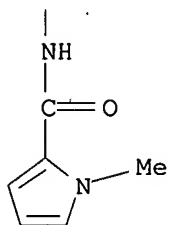
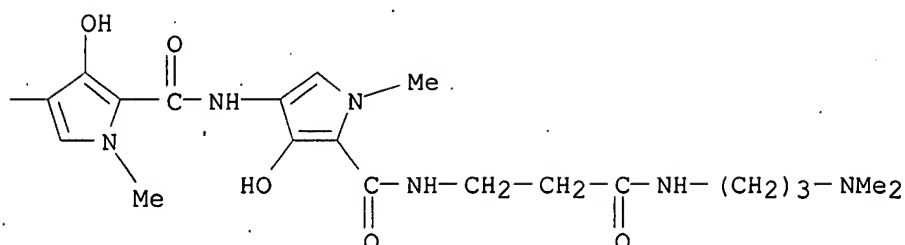
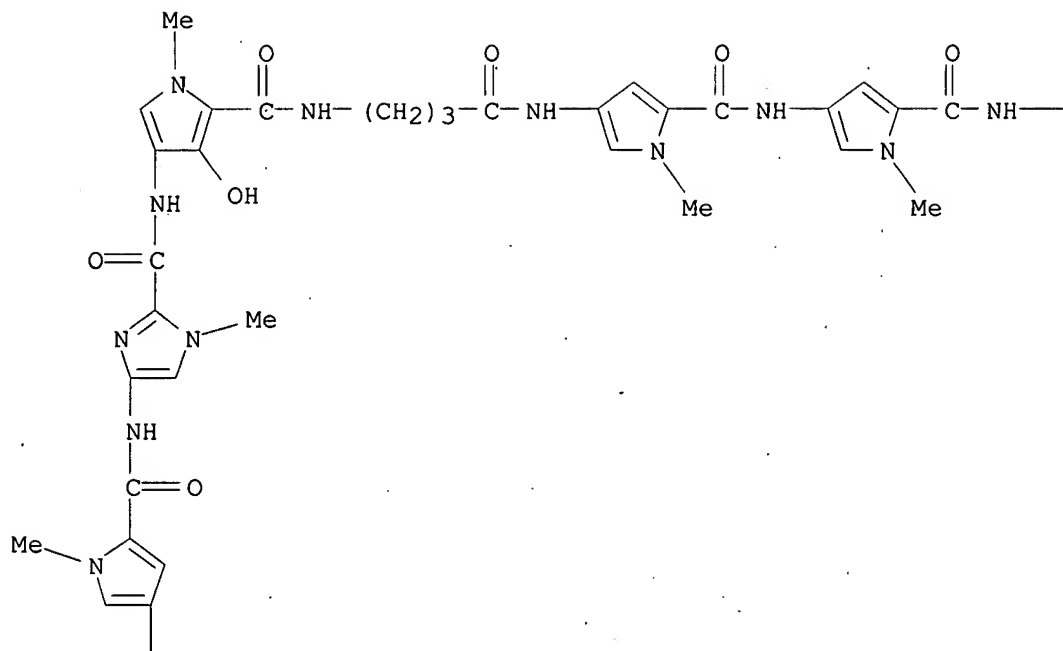


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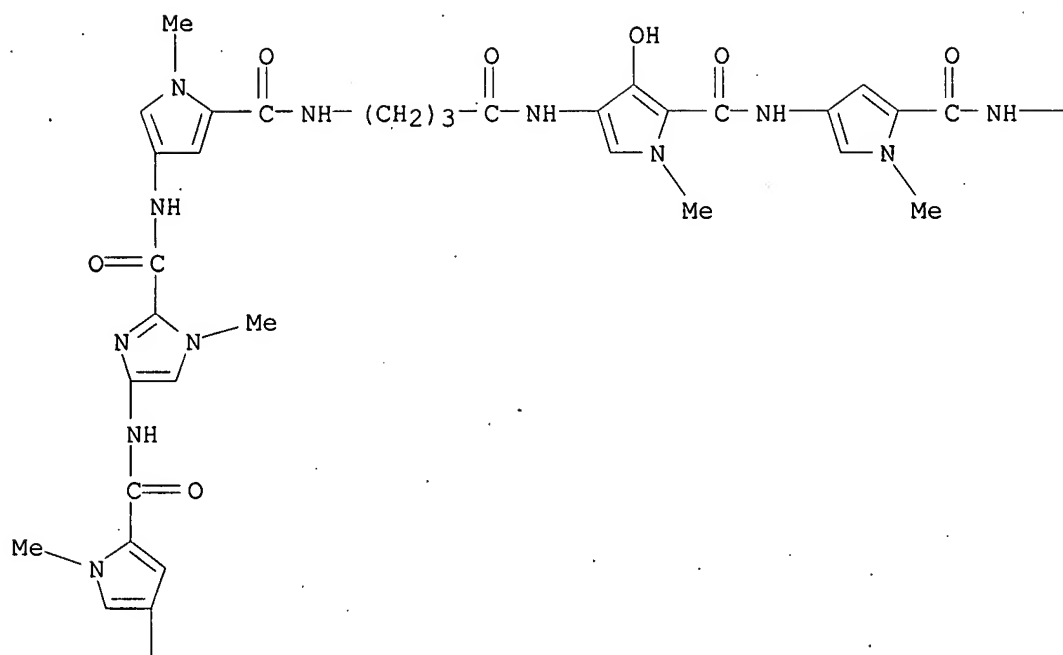
RN 212182-90-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



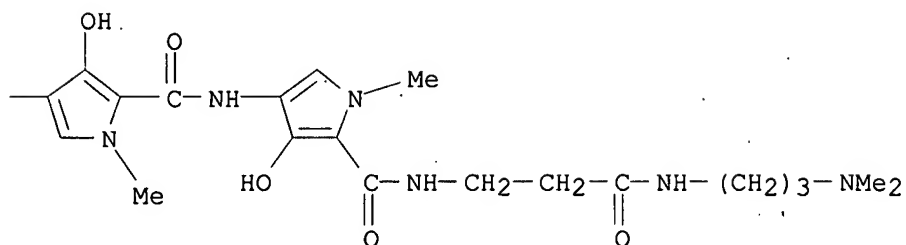


RN 212182-91-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

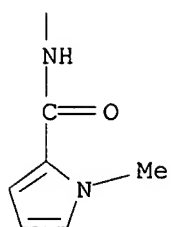
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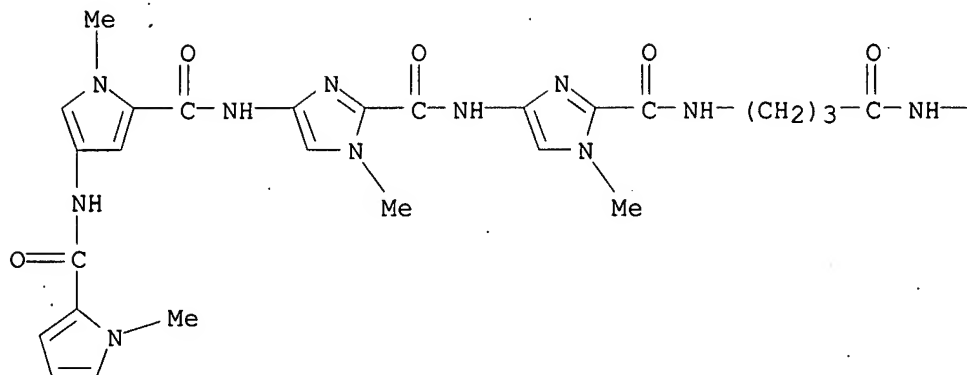


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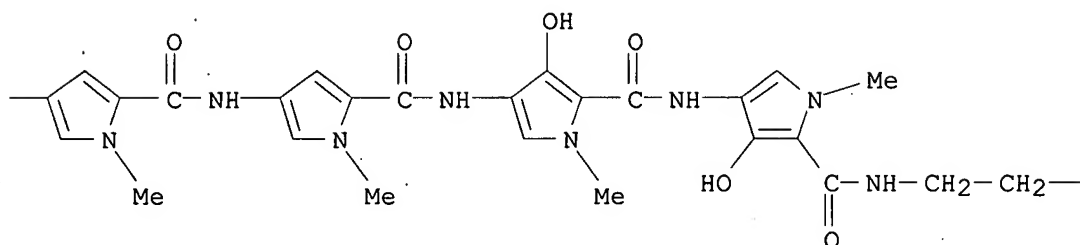


RN 212182-92-8 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

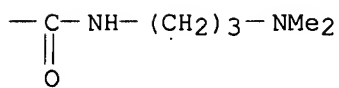
PAGE 1-A



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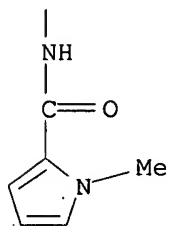
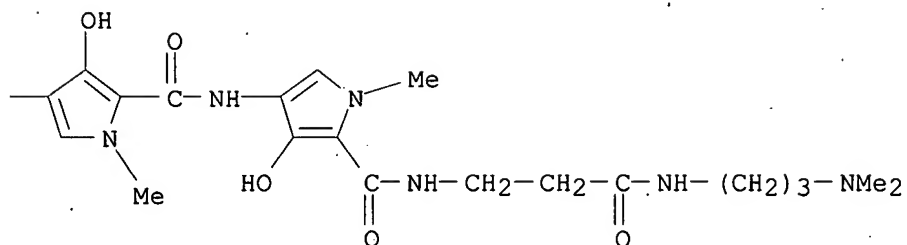
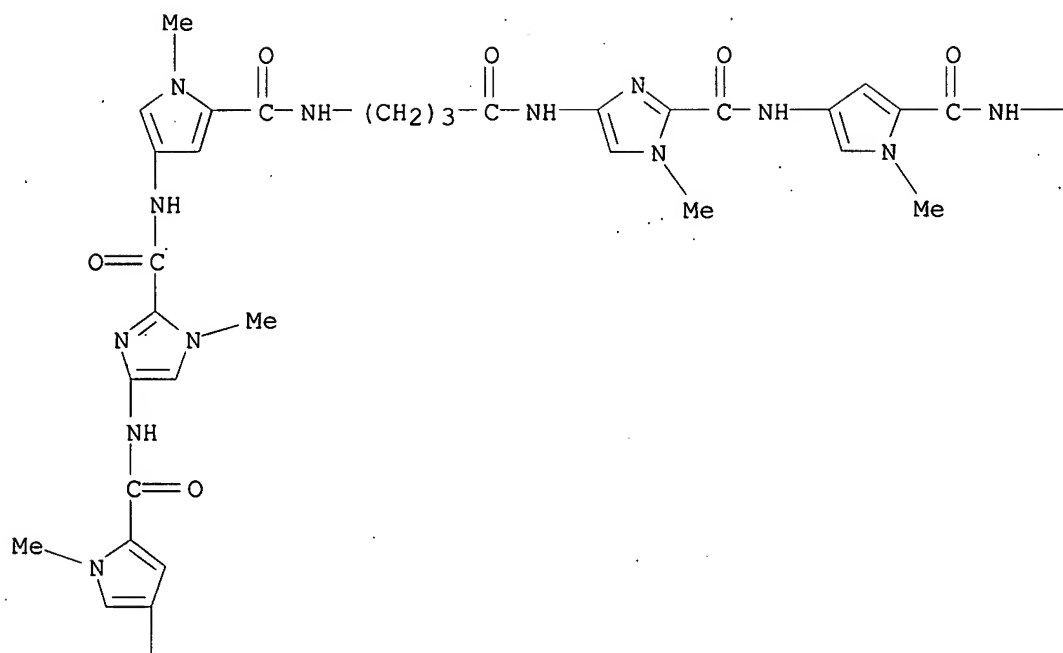


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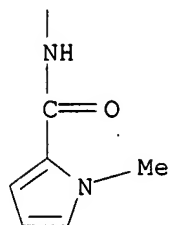
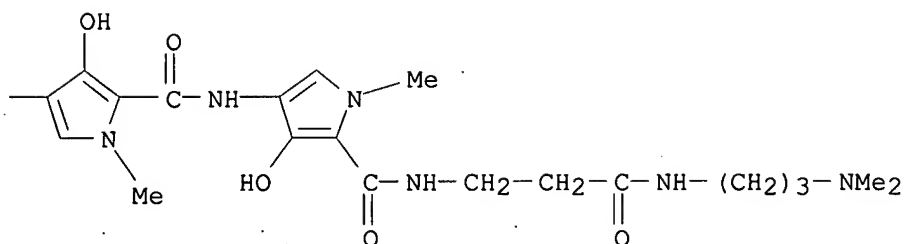
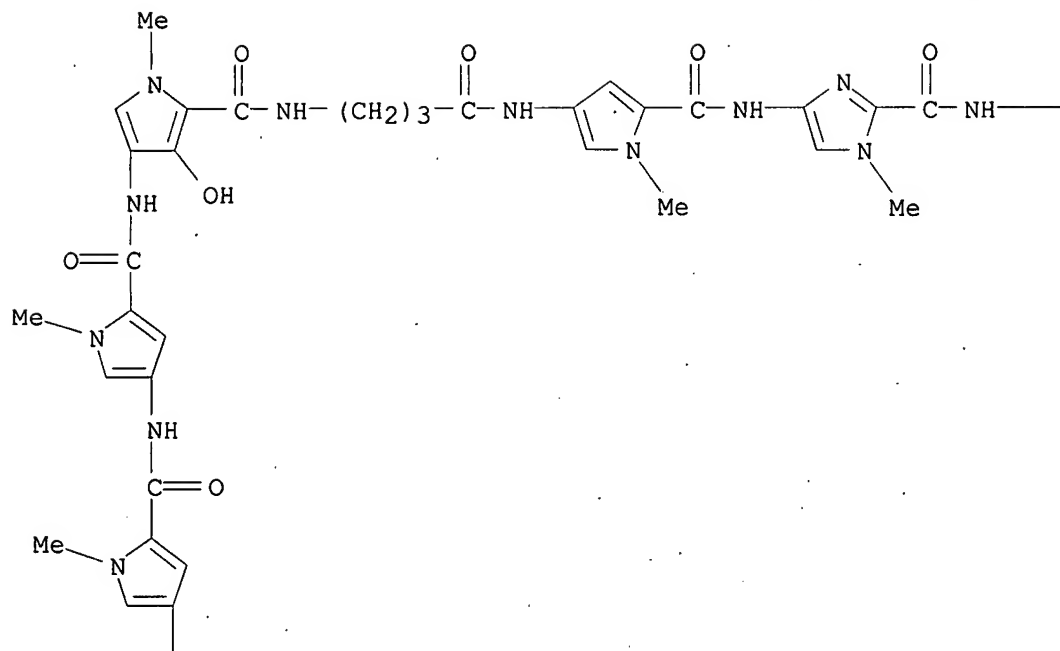


RN 212182-93-9 CAPLUS

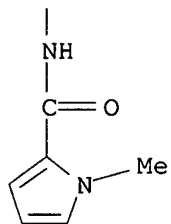
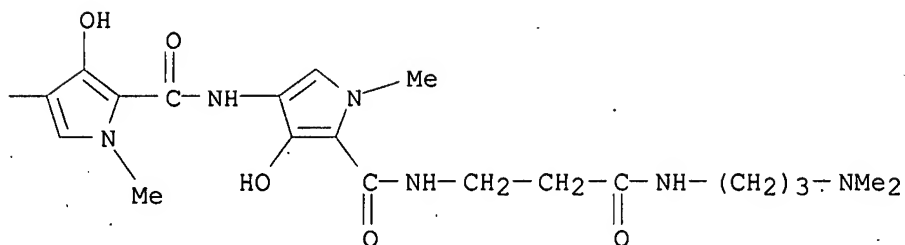
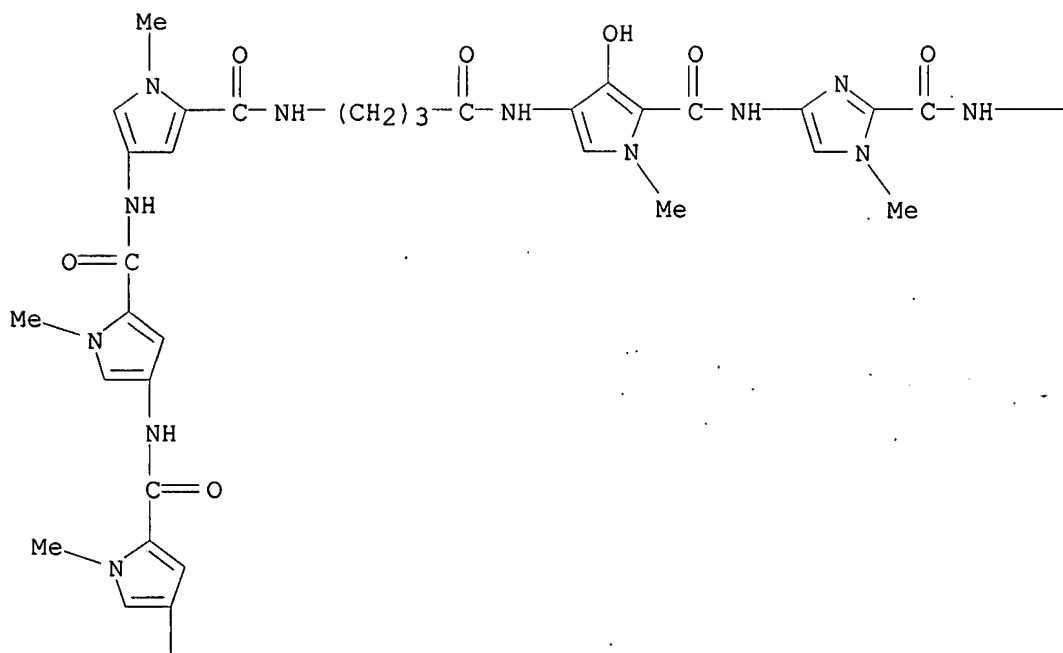
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



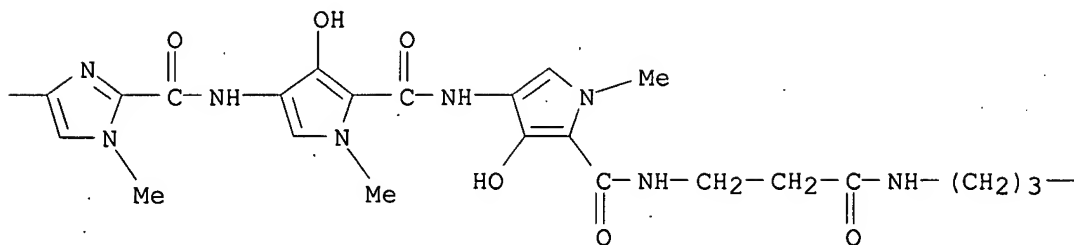
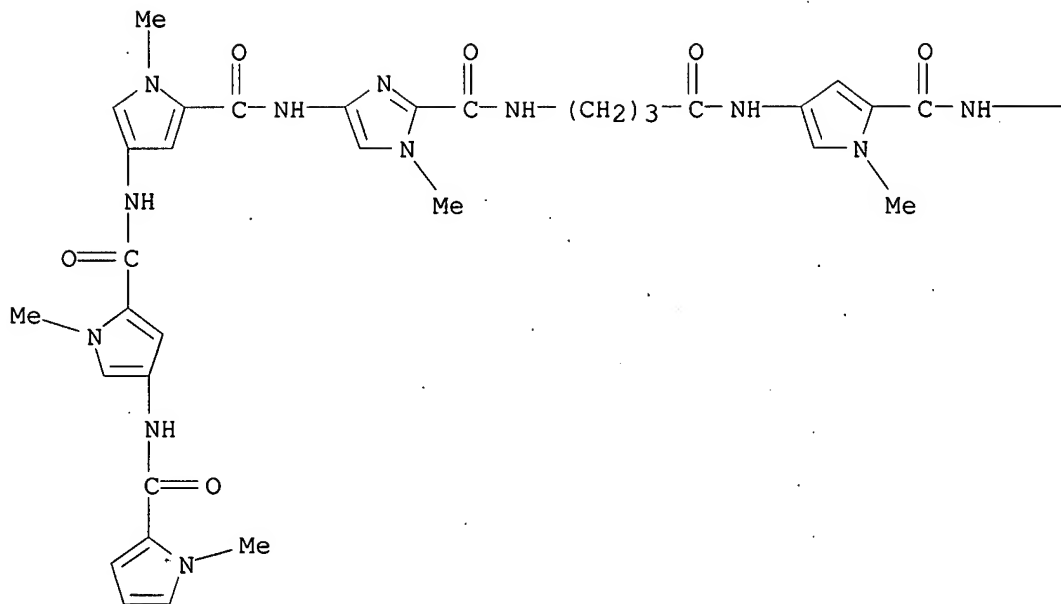
RN 212182-94-0 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212182-95-1 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

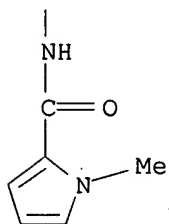
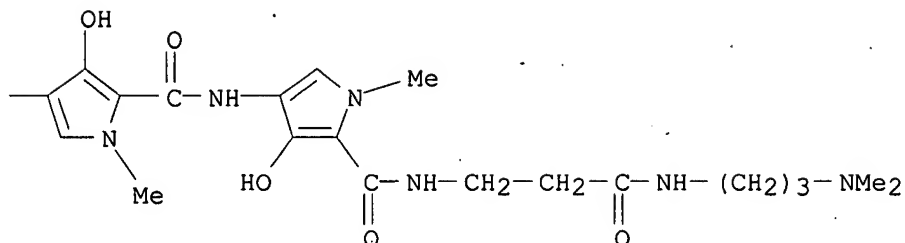
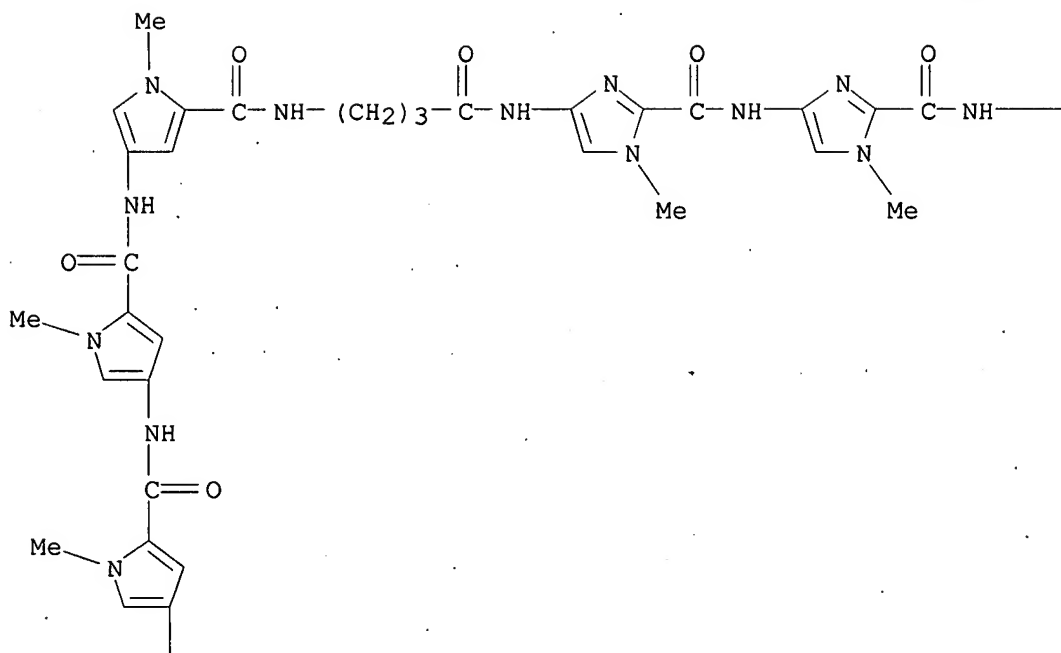


RN 212182-96-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

— NMe<sub>2</sub>

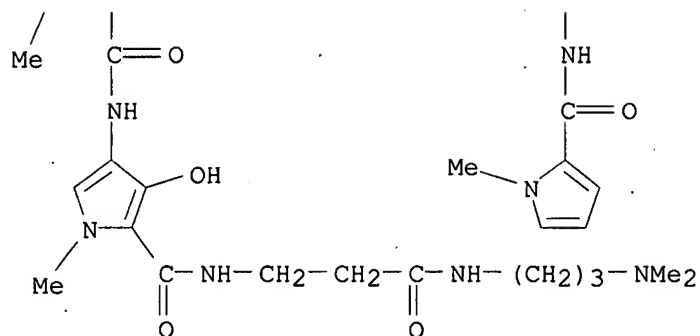
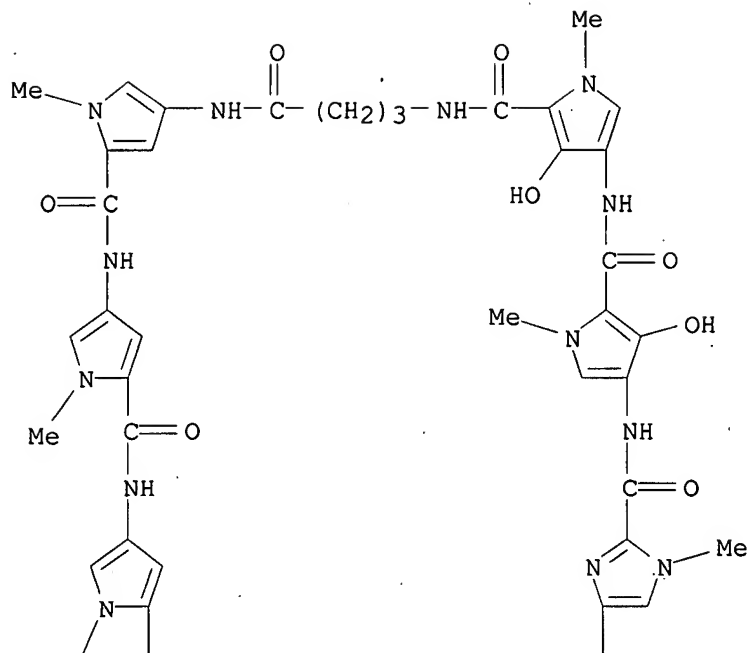
RN 212182-97-3 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

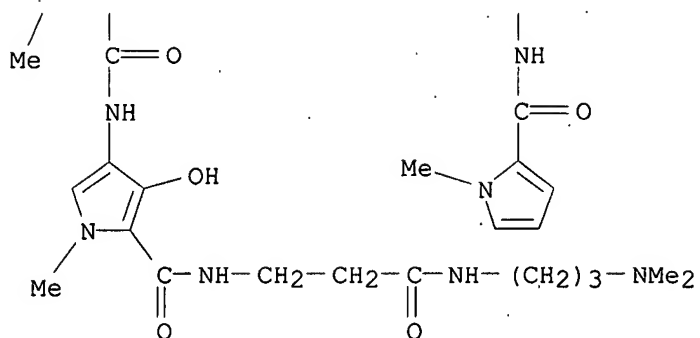
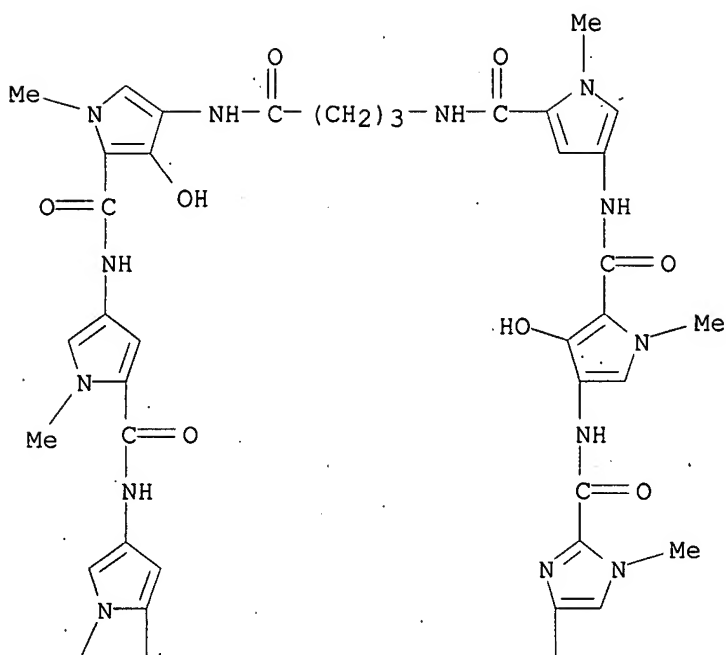


RN	212182-98-4	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	



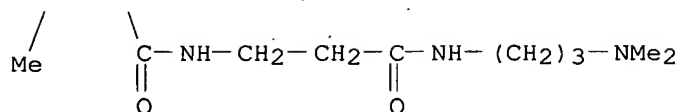
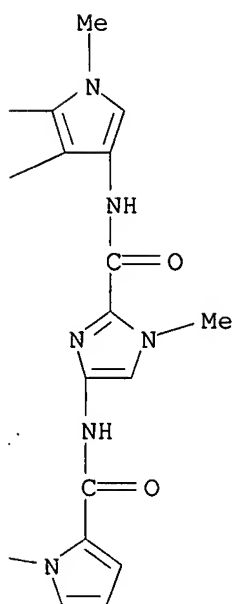
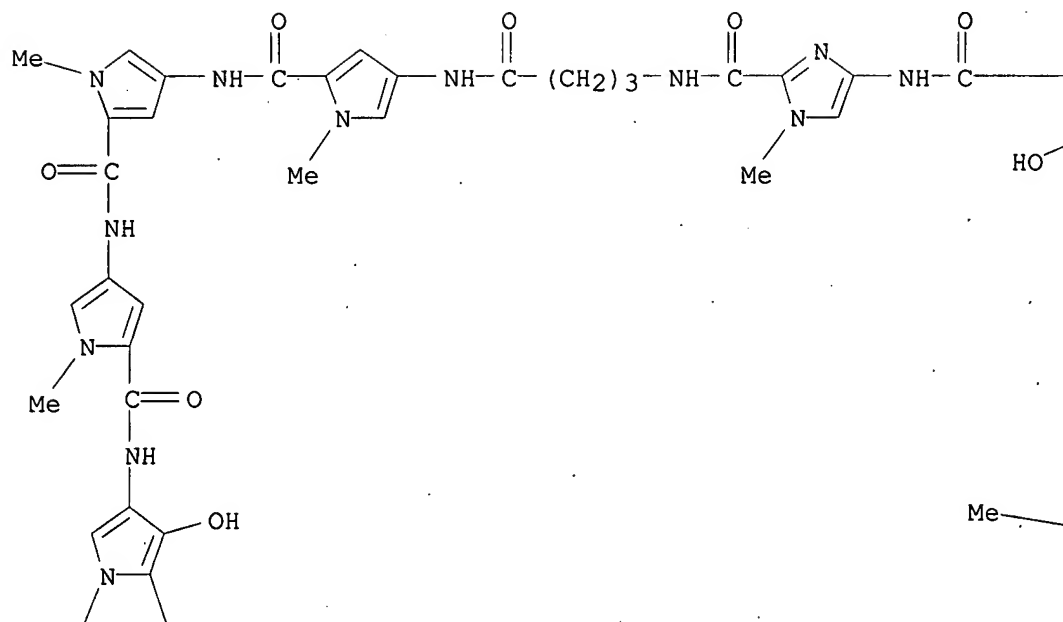


RN 212182-99-5 CAPLUS  
 CN.  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212183-00-1 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



CN

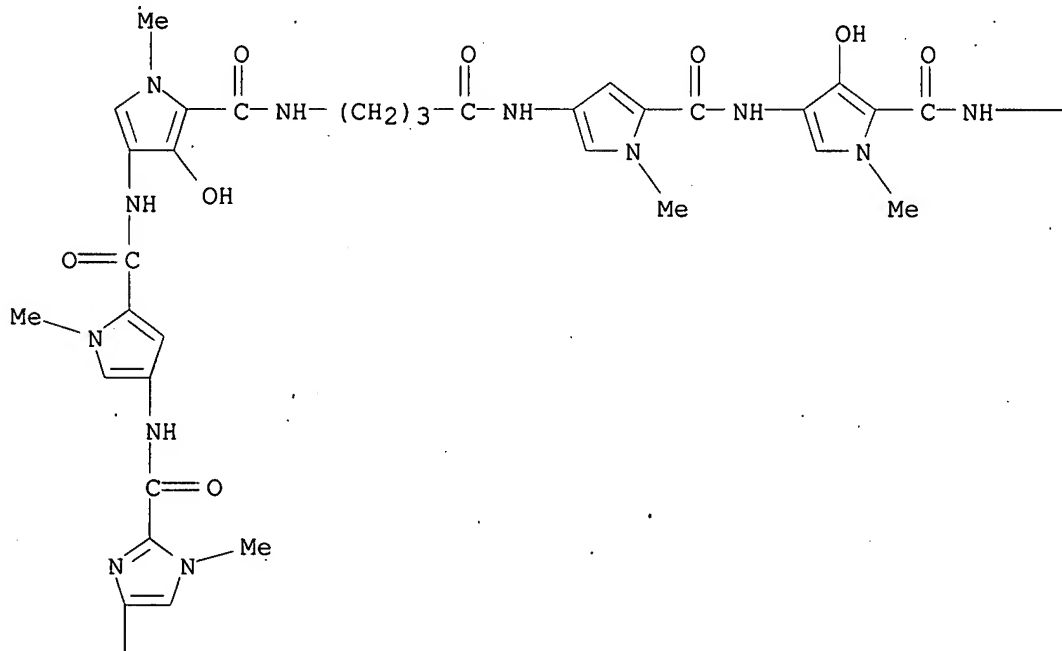
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CN

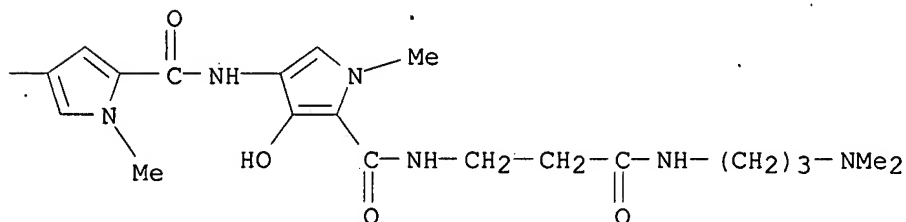
$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-

1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

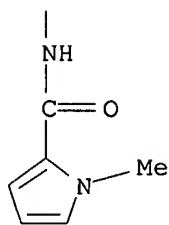
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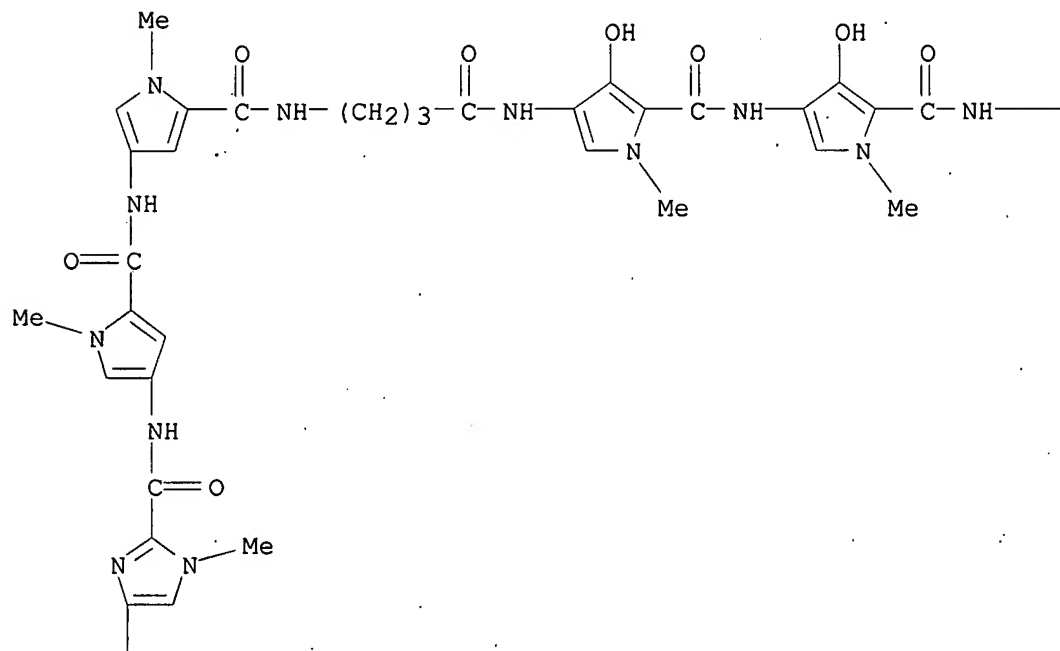
PAGE 2-A



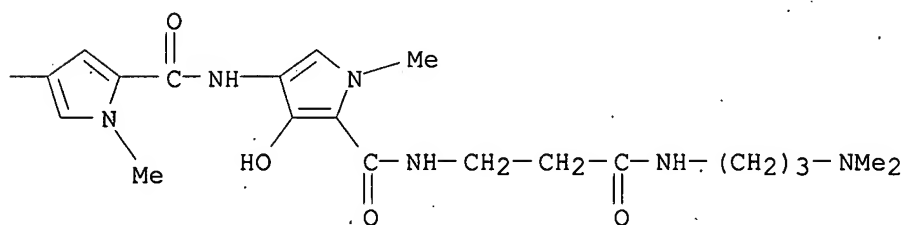
RN 212183-03-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-

methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

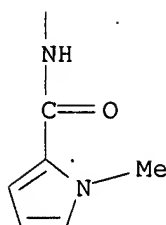
PAGE 1-A



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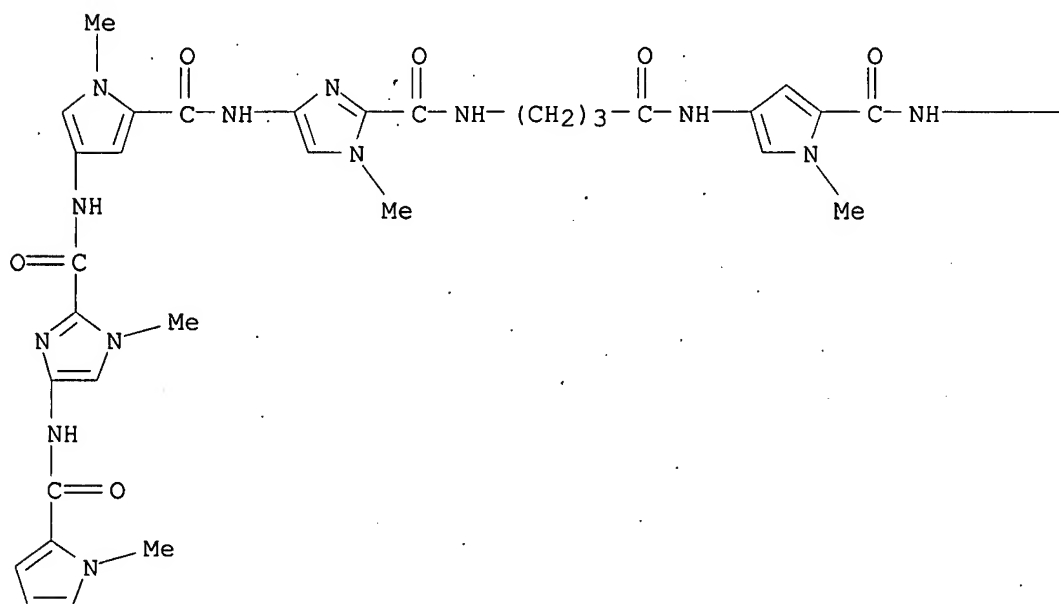
PAGE 2-A



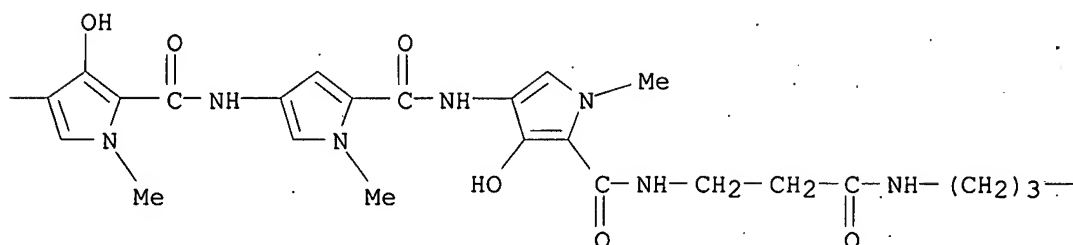
RN 212183-04-5 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-

2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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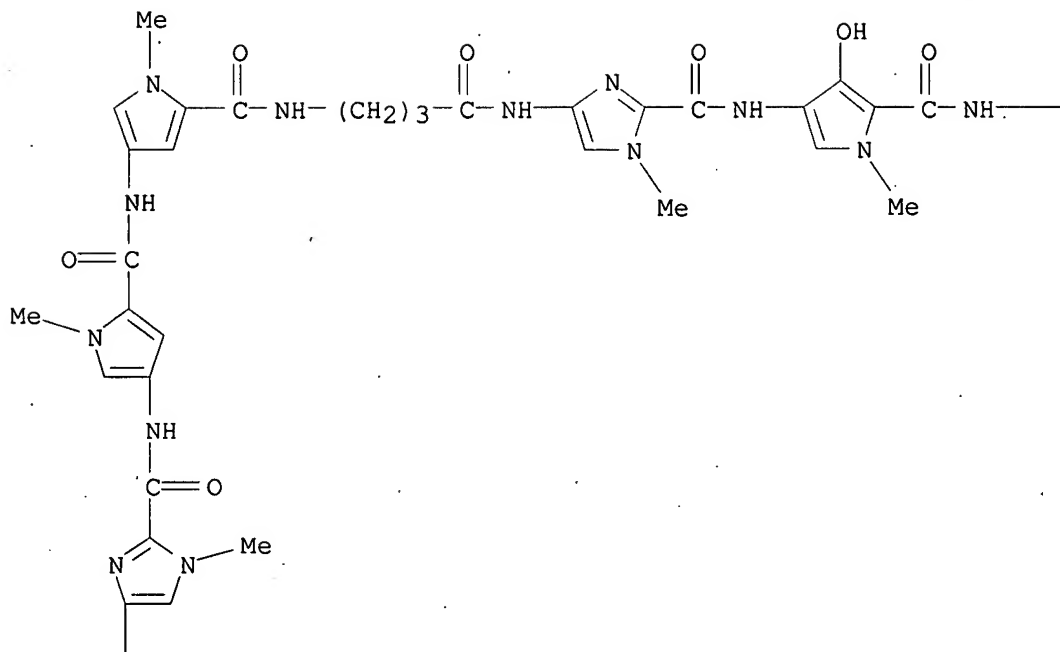
PAGE 1-C

— NMe<sub>2</sub>

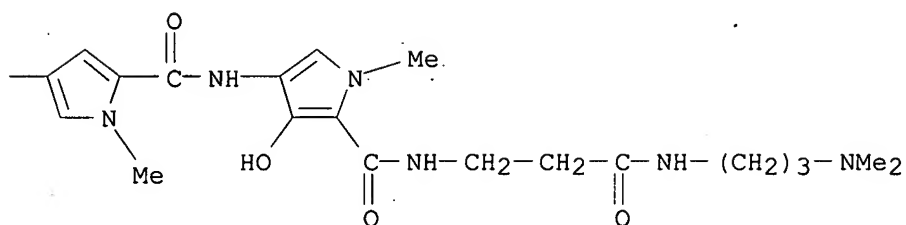
RN 212183-06-7 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

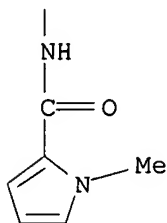
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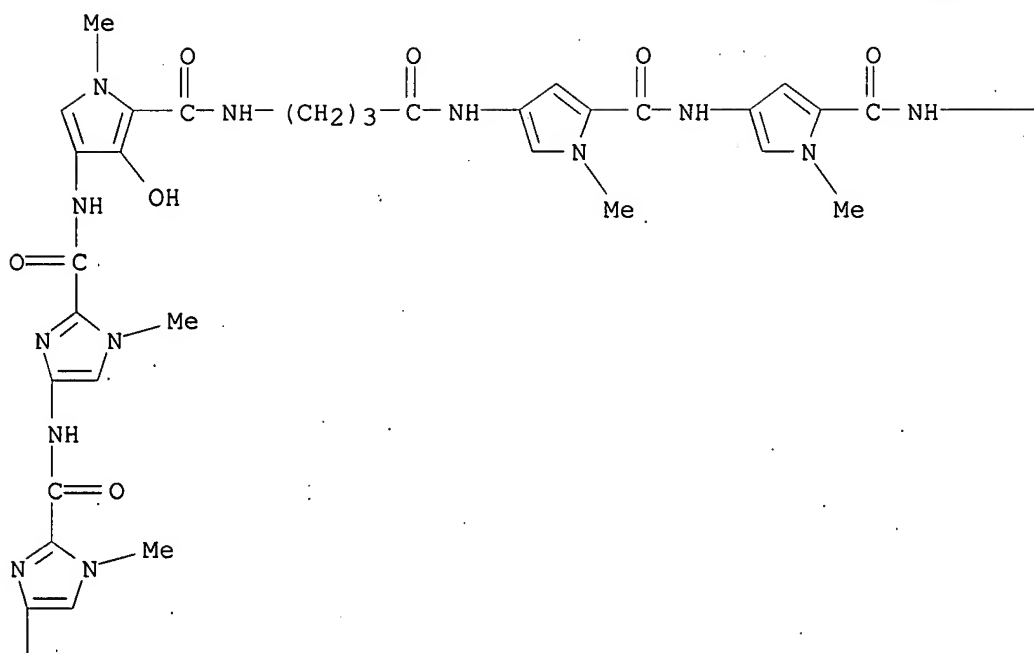
PAGE 2-A



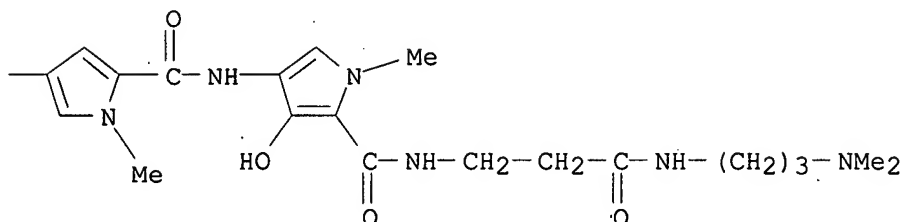
RN 212183-07-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



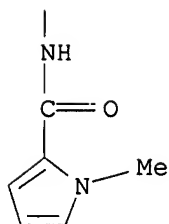
PAGE 1-A



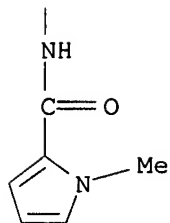
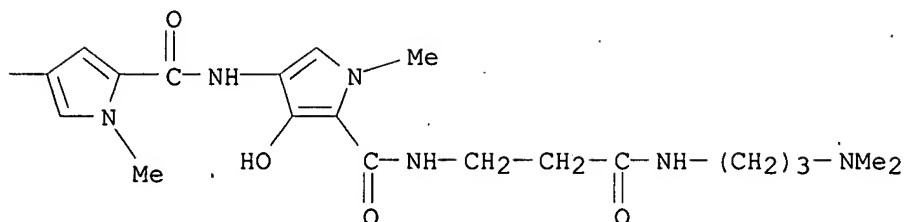
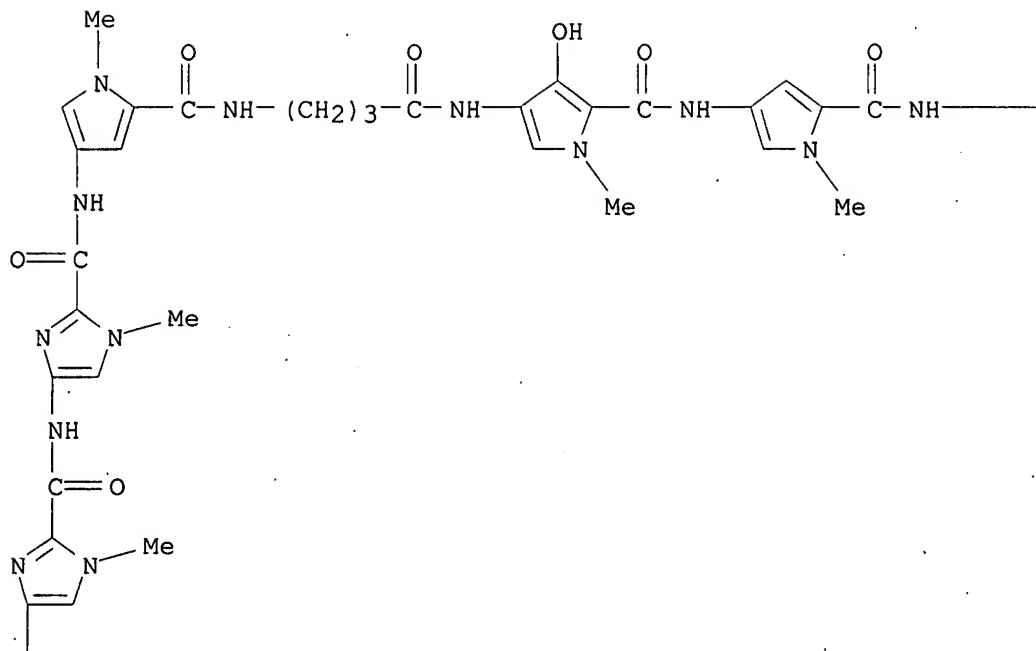
PAGE 1-B



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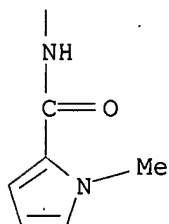
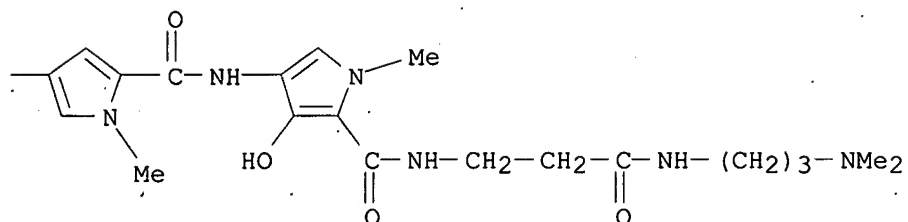
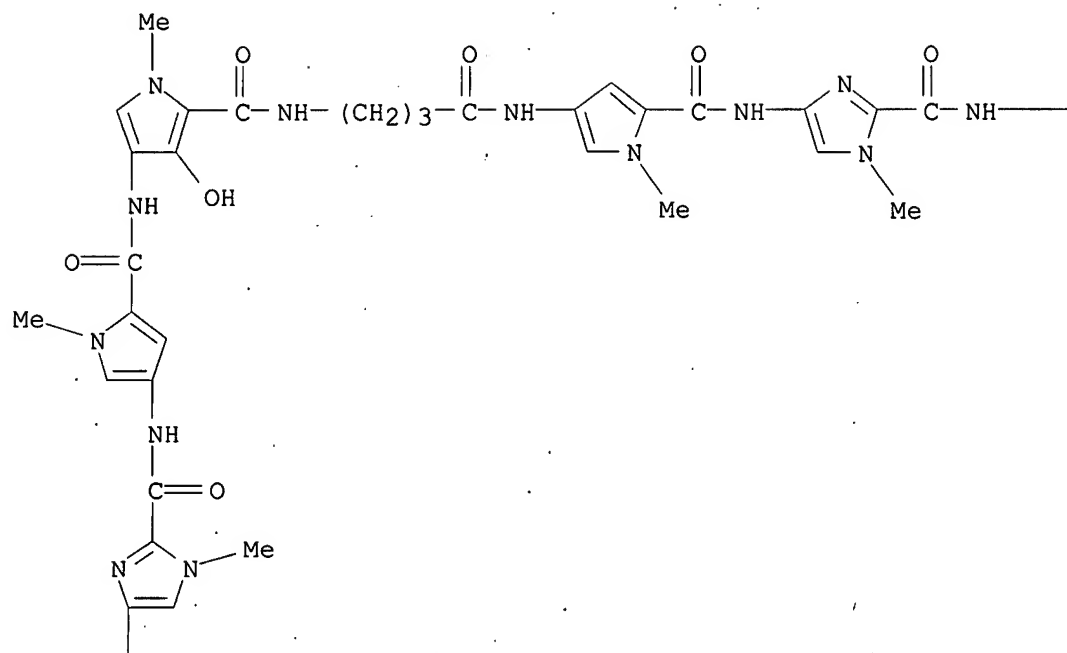


RN 212183-09-0 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

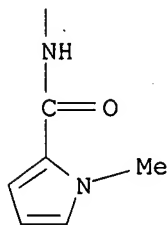
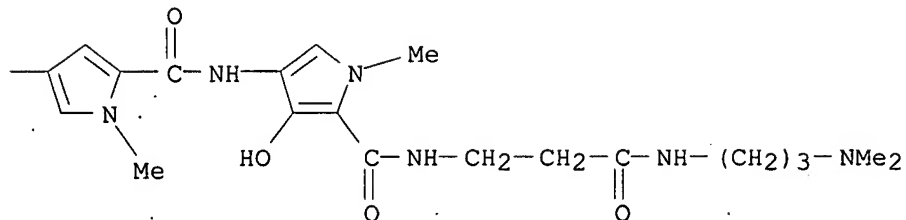
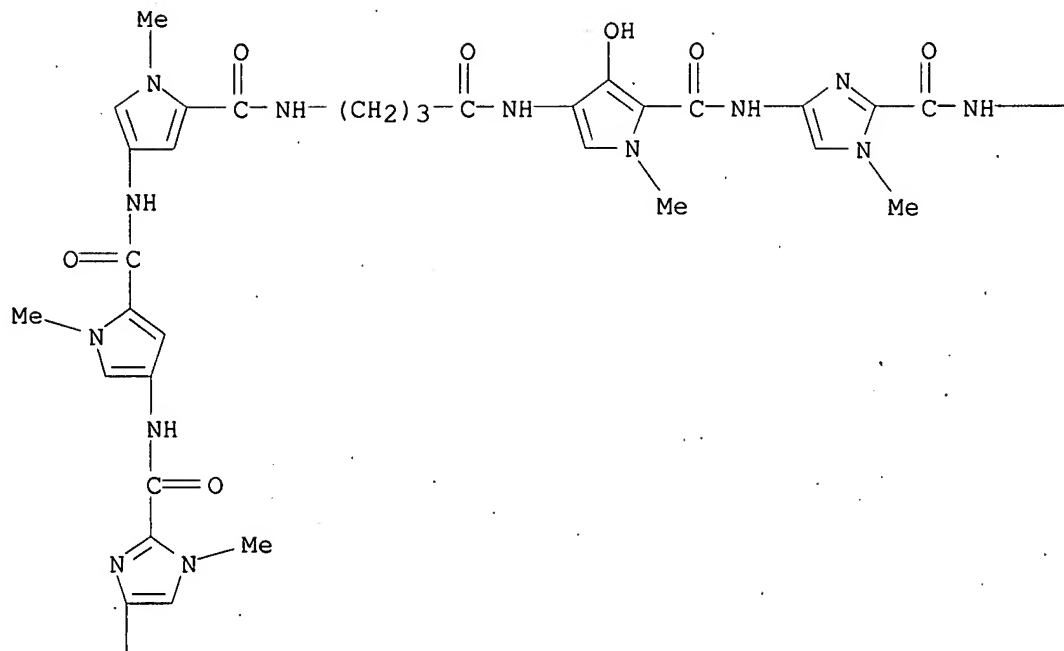


RN 212183-11-4 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

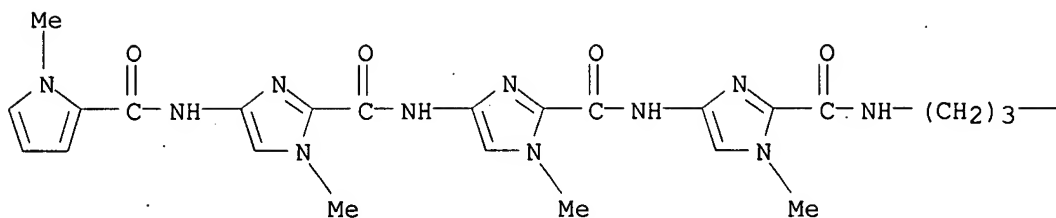


RN	212183-13-6	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	

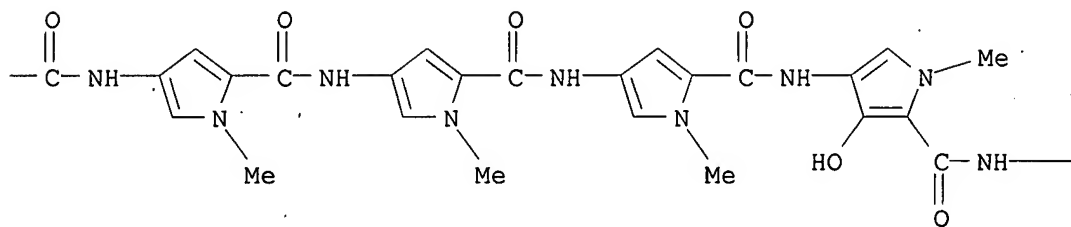


RN 212183-14-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

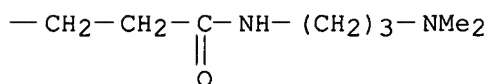
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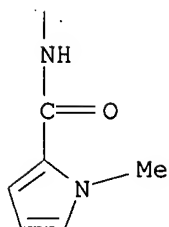
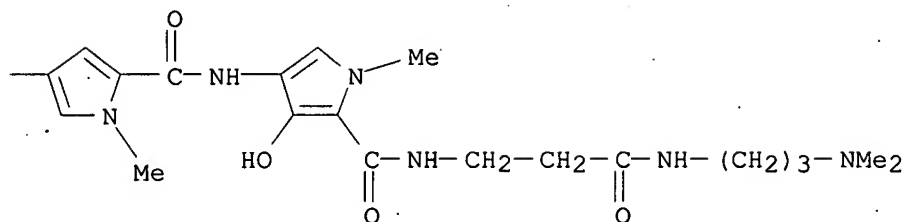
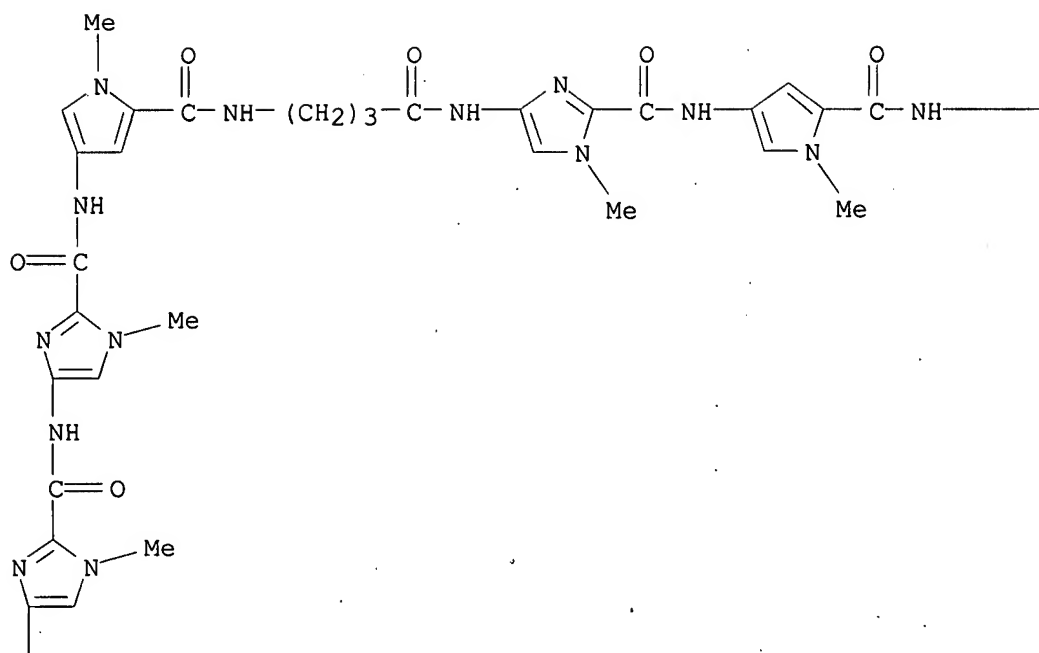


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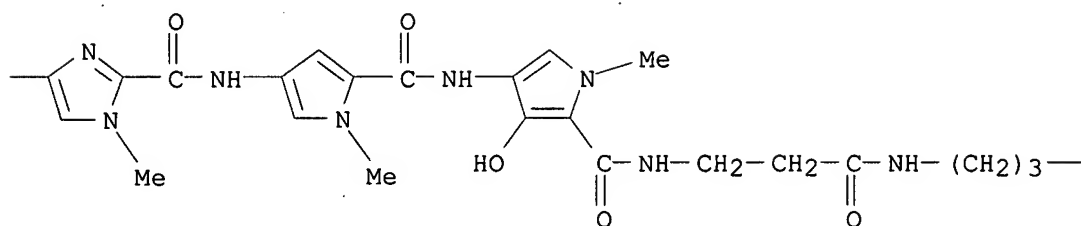
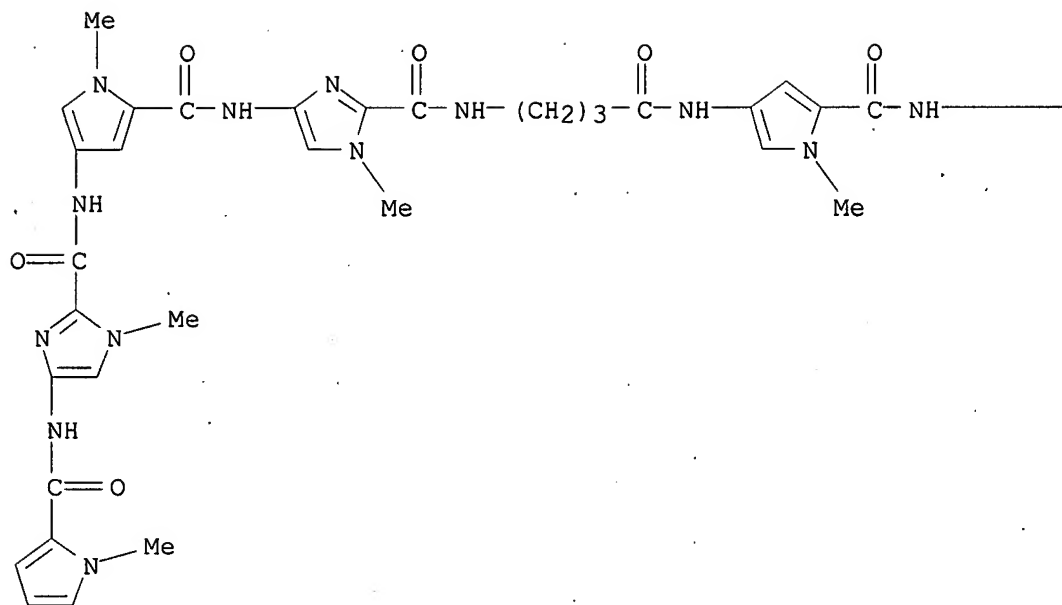
RN 212183-15-8 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



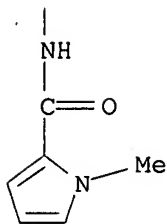
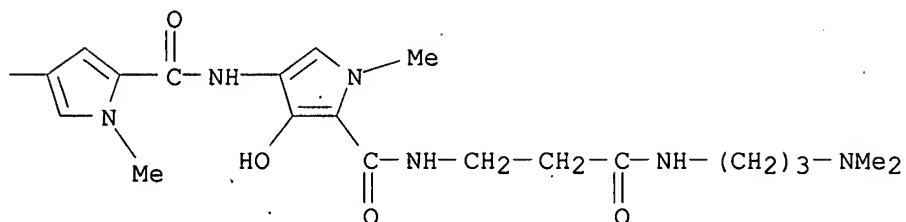
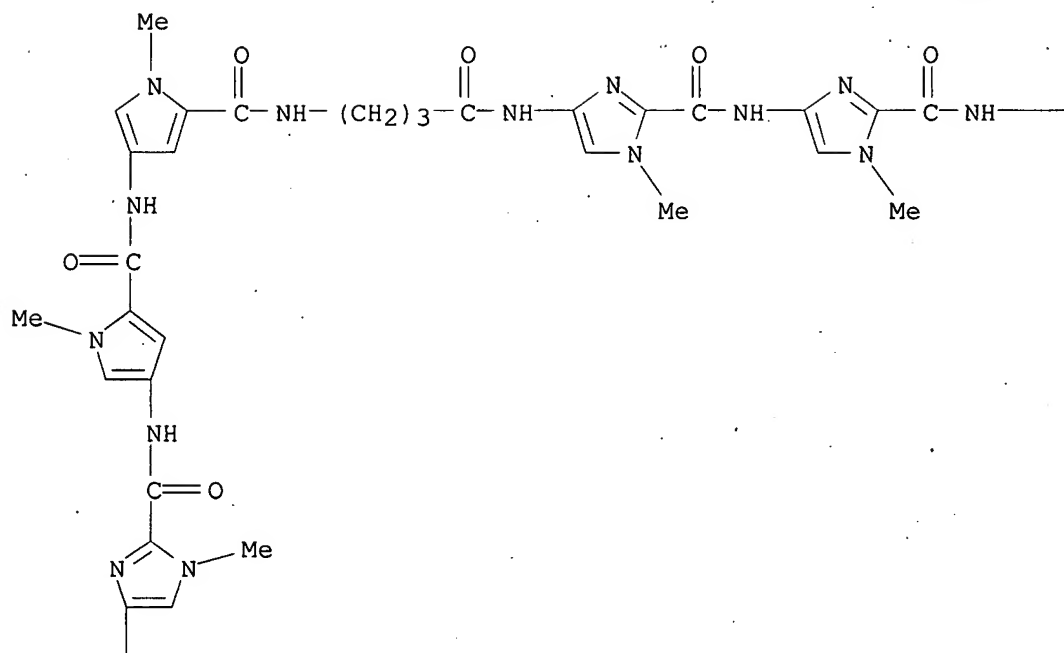
RN 212183-17-0 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

— NMe<sub>2</sub>

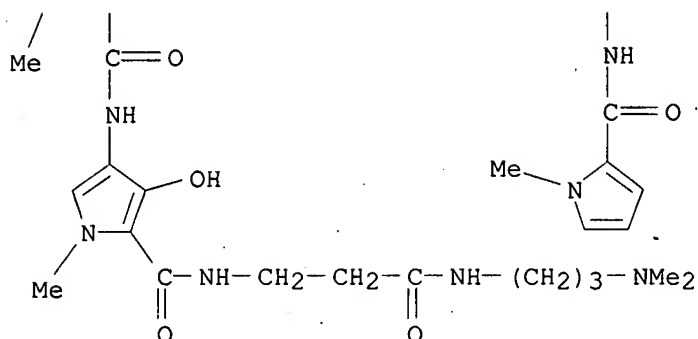
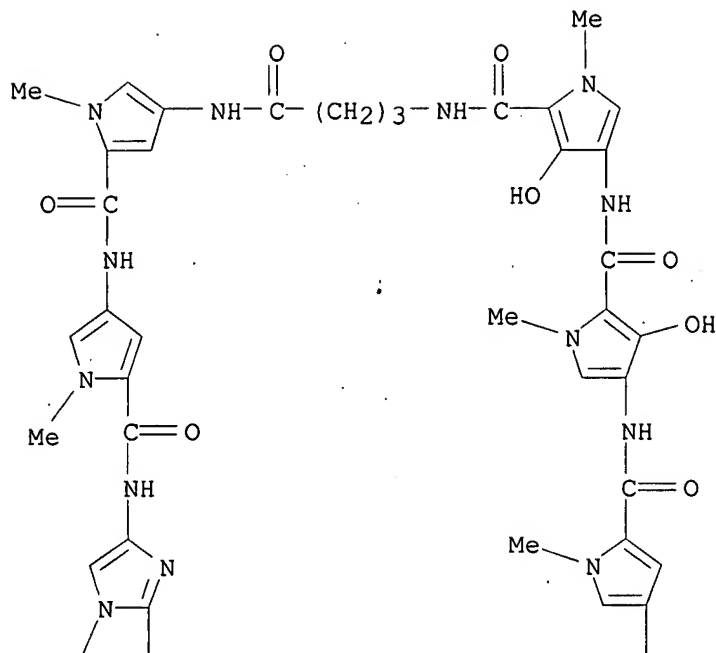
RN 212183-19-2 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetrahydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI). (CA INDEX NAME)

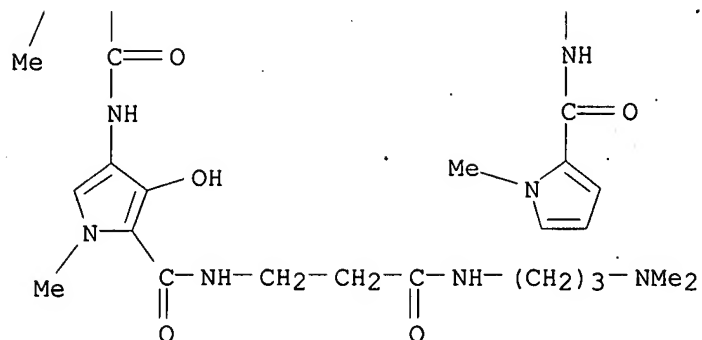
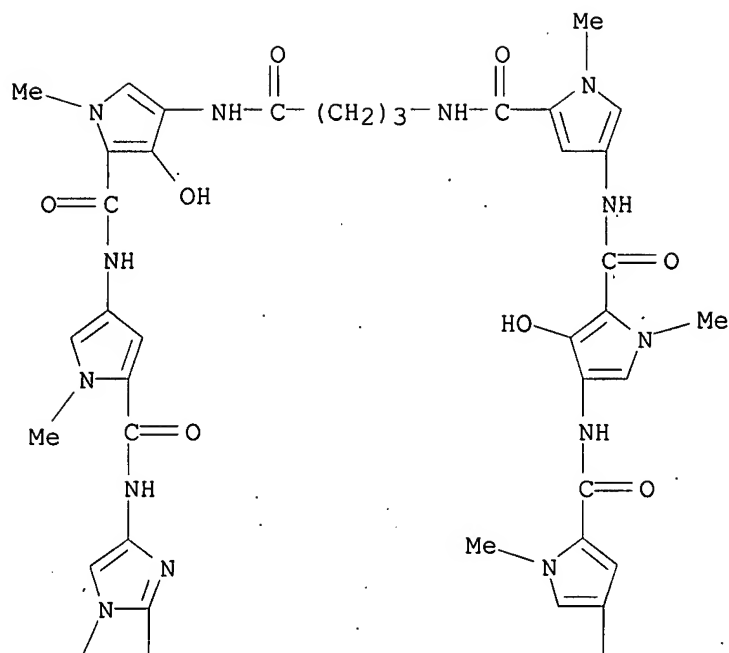


RN 212183-21-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



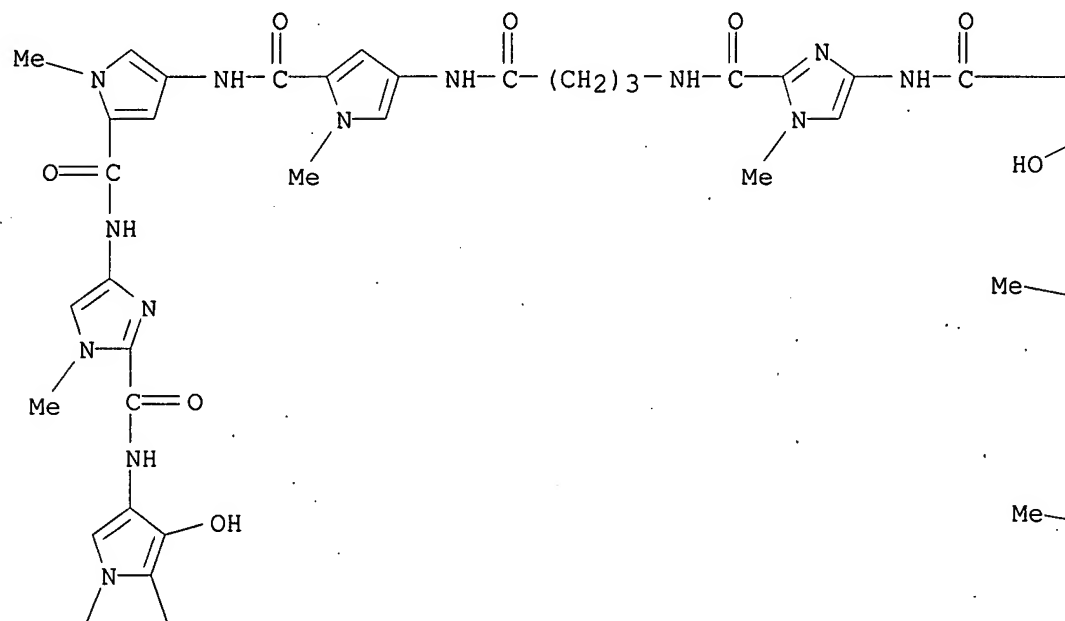


RN 212183-23-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

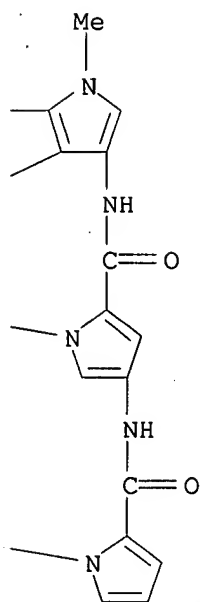


RN 212183-24-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

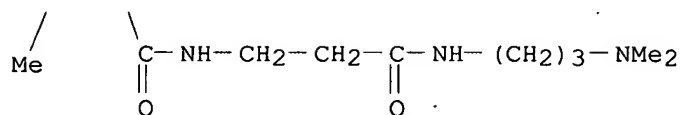
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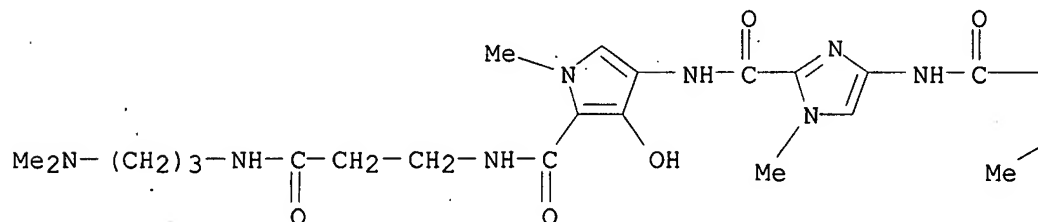


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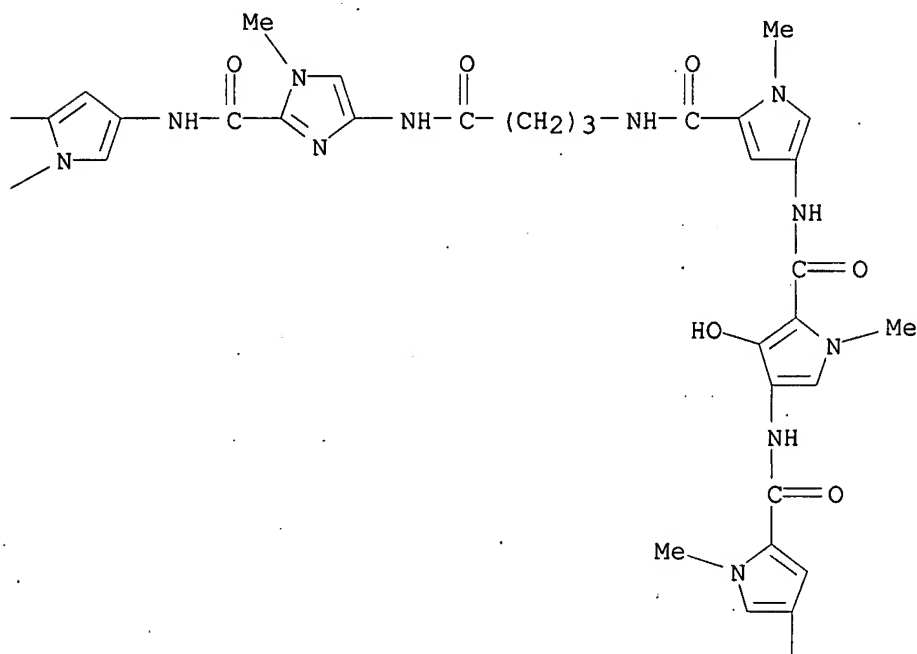


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

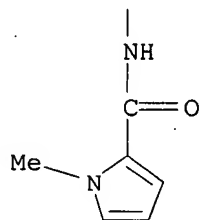
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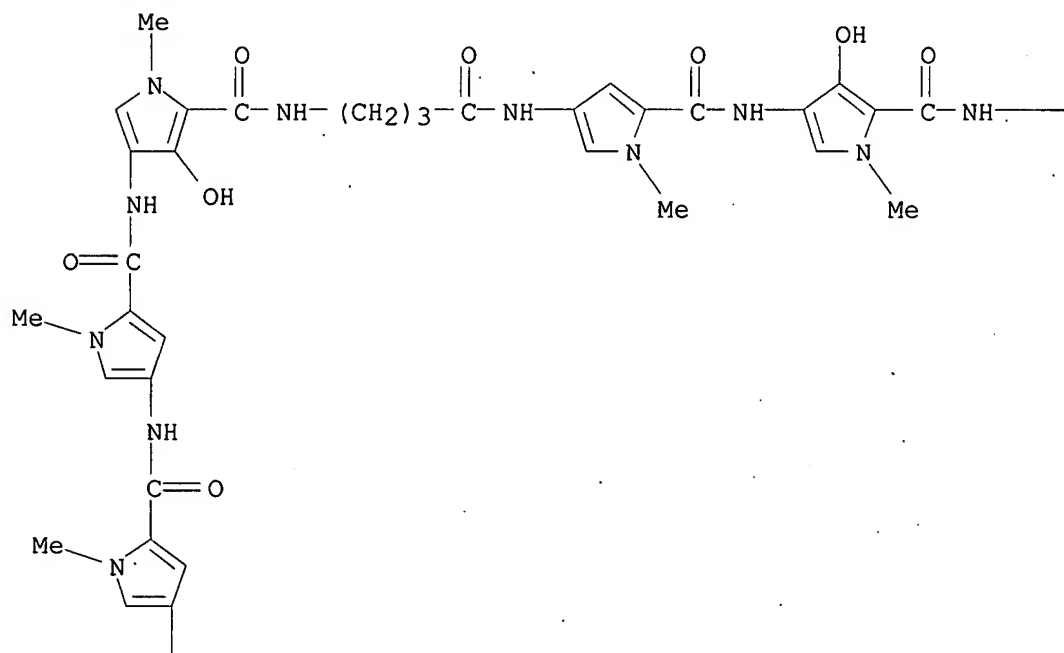


RN 212183-28-3 CAPLUS

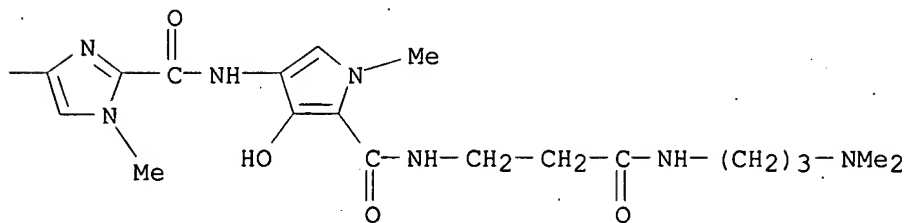
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-

1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

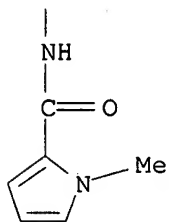
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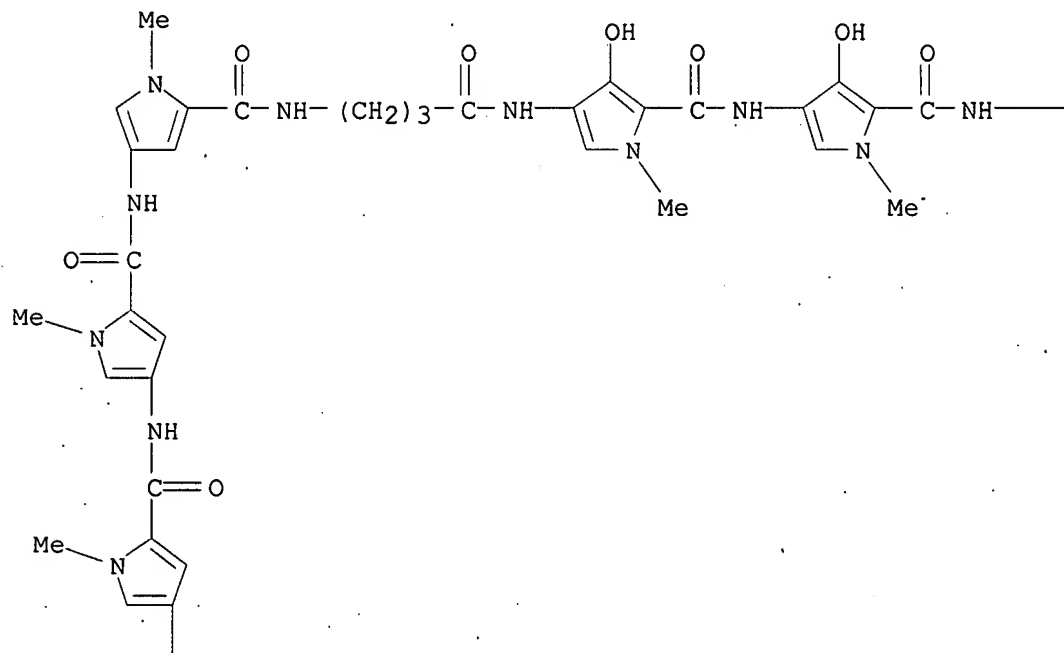
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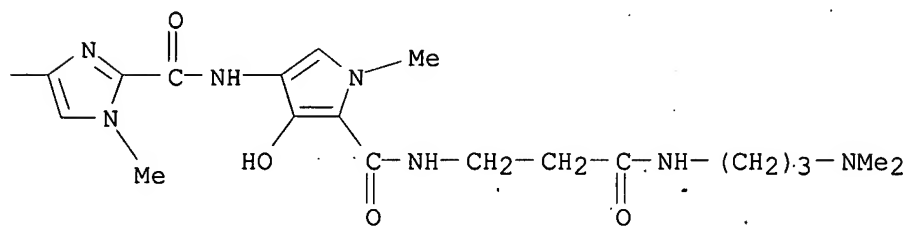
RN 212183-30-7 CAPLUS  
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-

methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

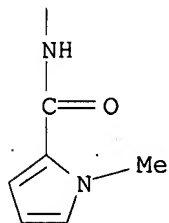
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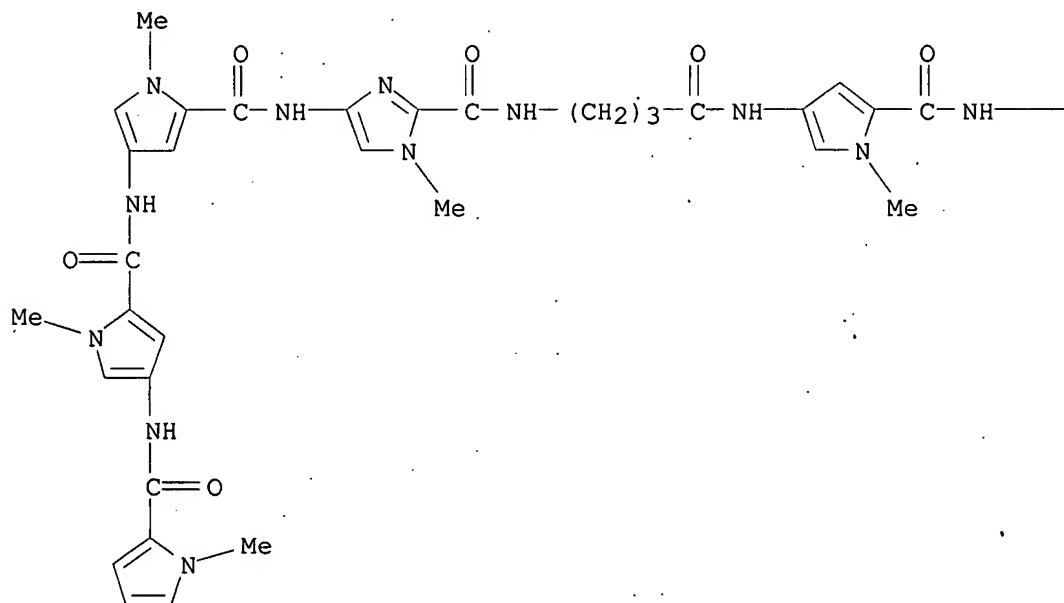


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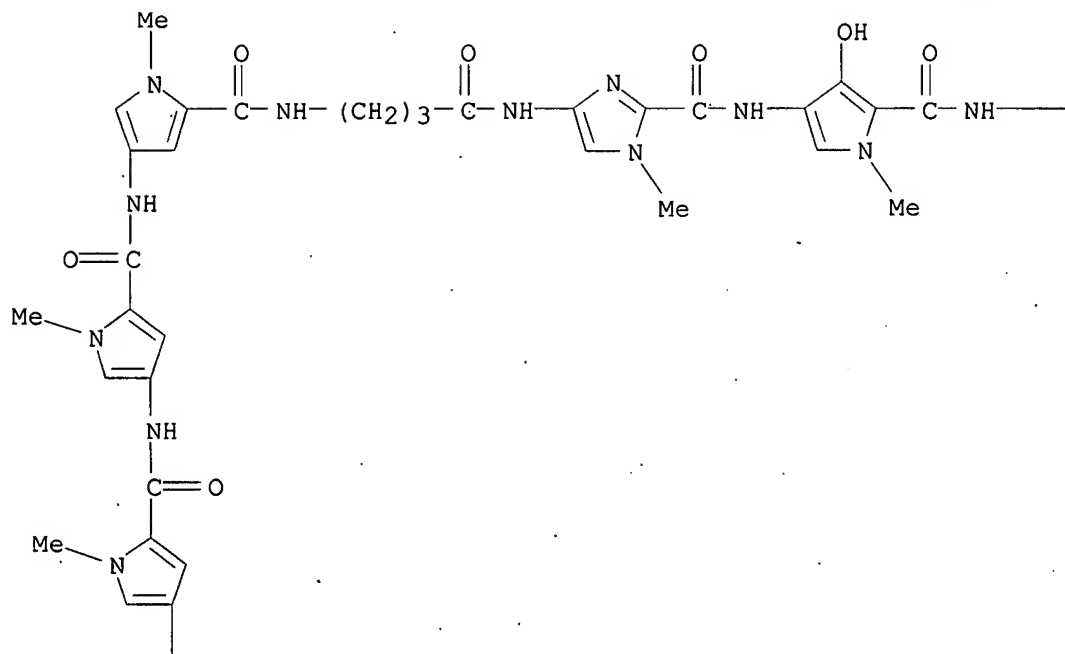
RN 212183-31-8 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-

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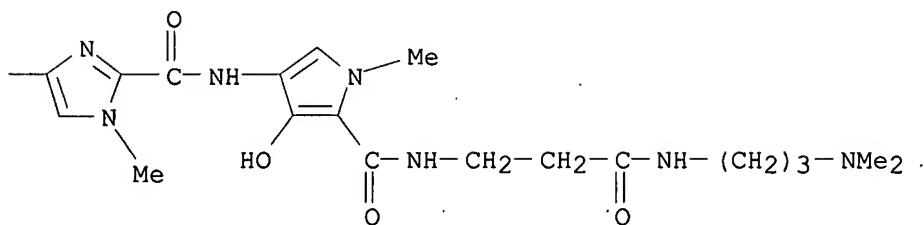
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RN	212183-33-0	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	

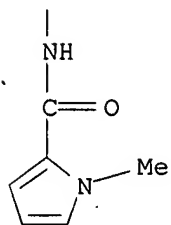
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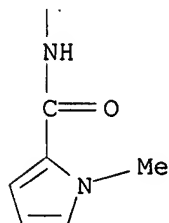
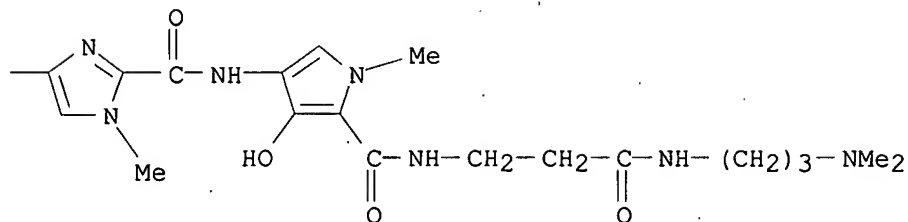
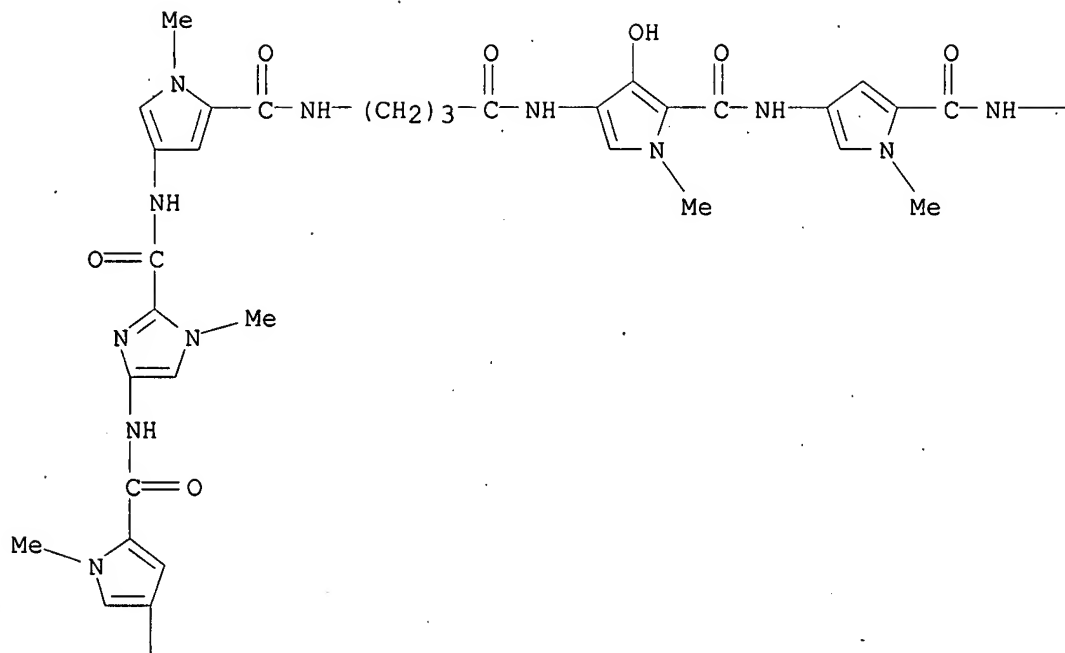
PAGE 2-A



RN 212183-35-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

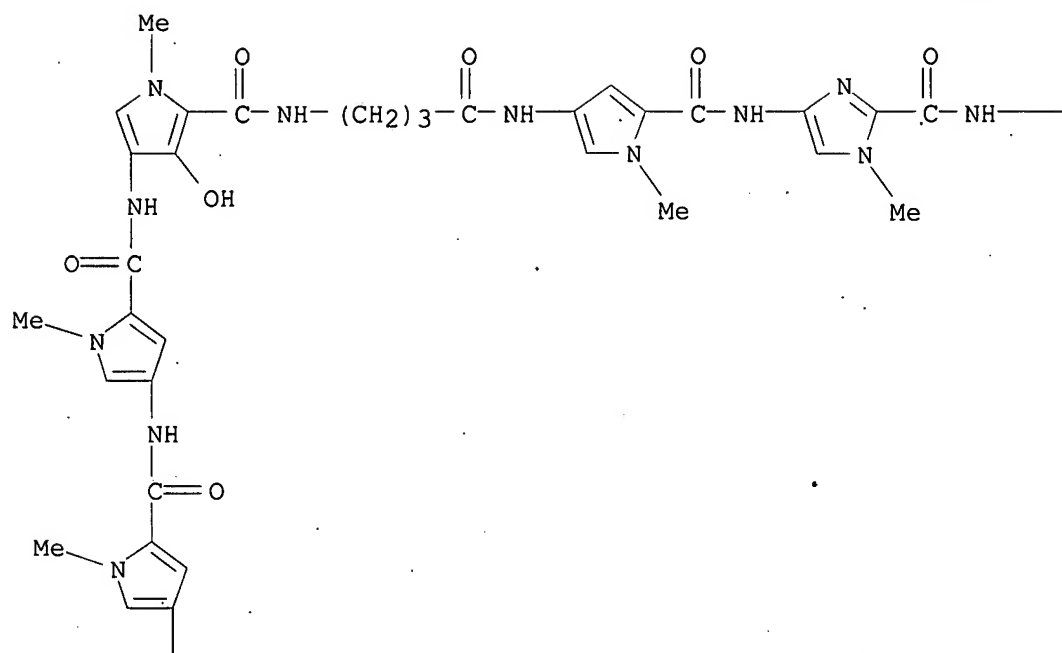


RN	212183-37-4	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	

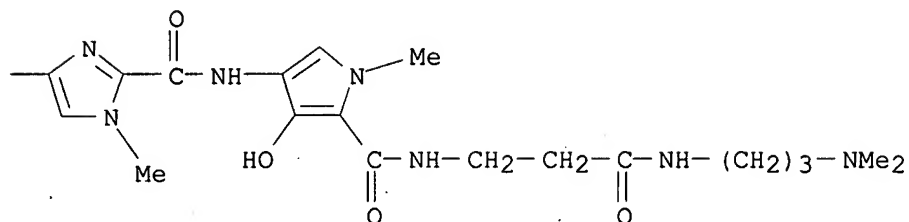


RN 212183-39-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

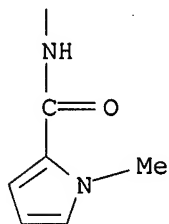
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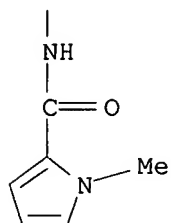
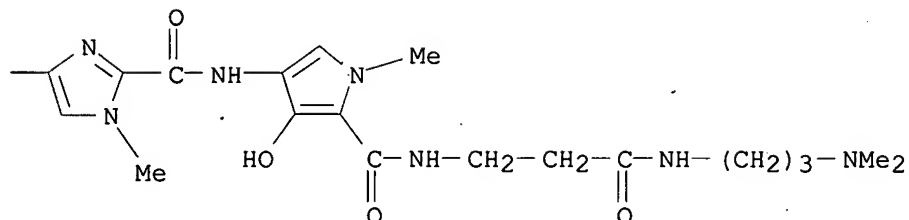
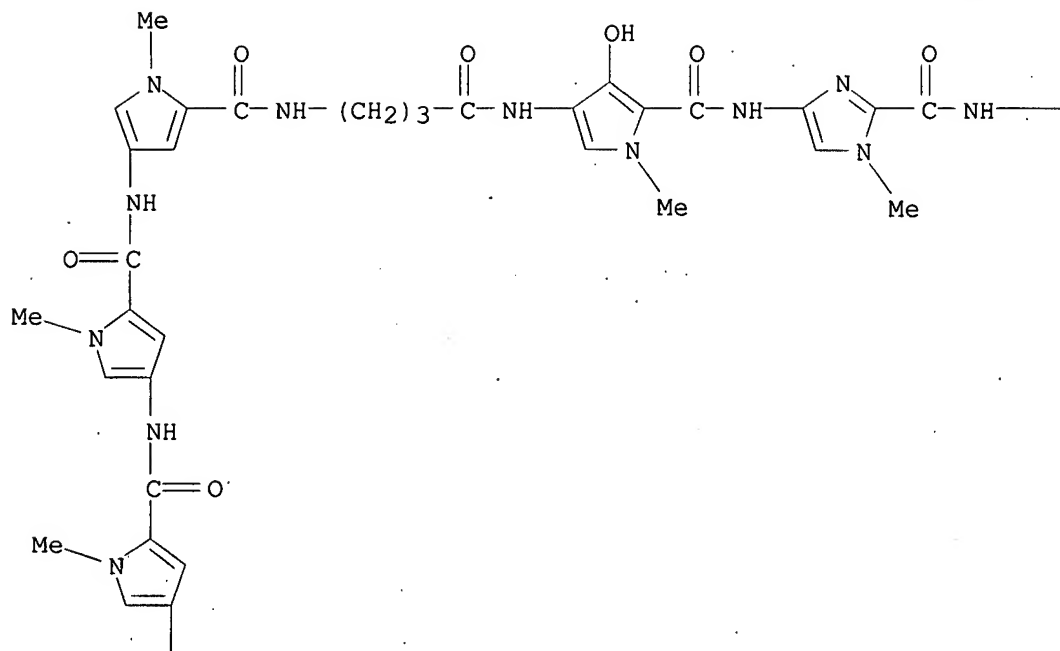
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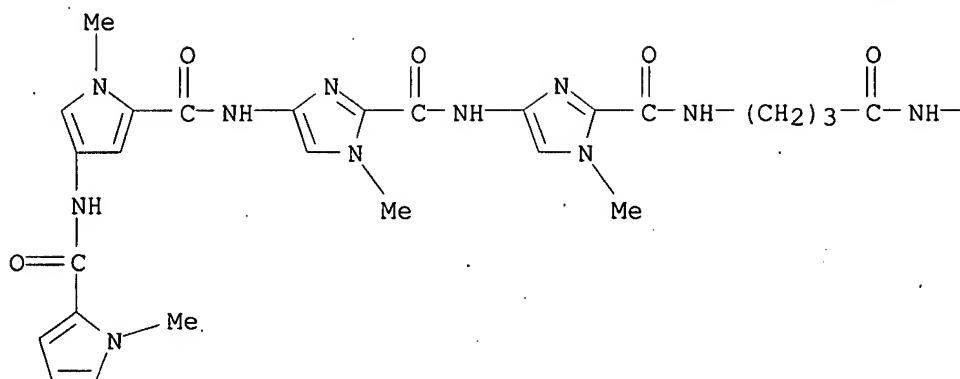
RN 212183-41-0 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



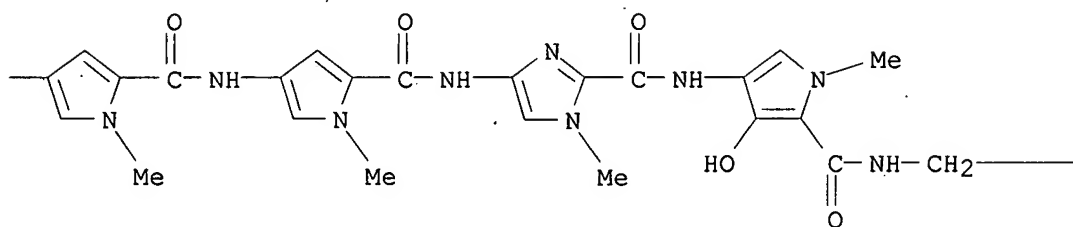
RN 212183-43-2 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

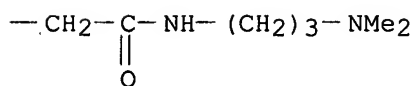
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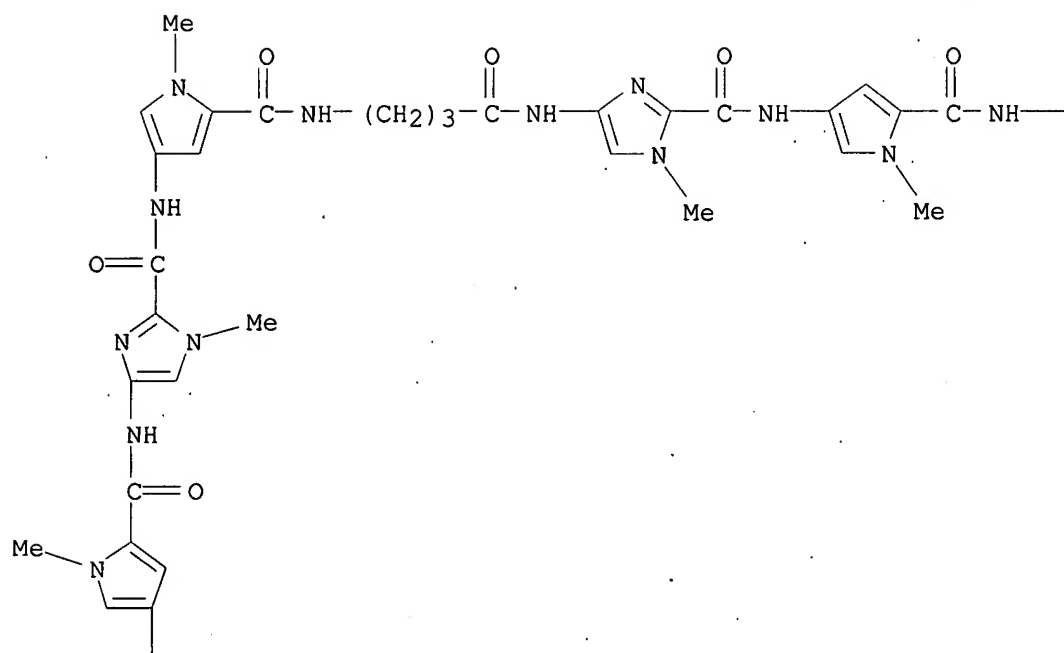


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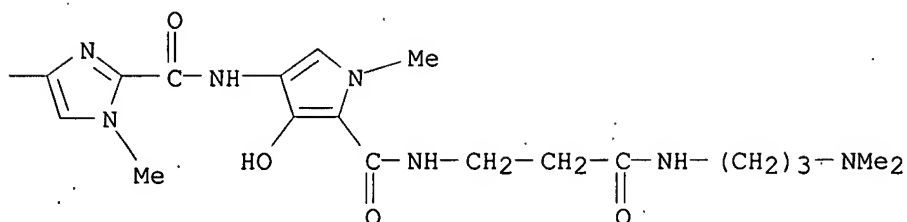


RN 212183-45-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-  
 1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-  
 methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-  
 2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-  
 imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-  
 (dimethylamino)propyl]- (9CI) (CA INDEX NAME)

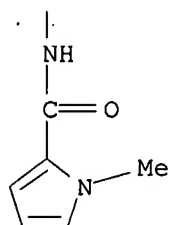
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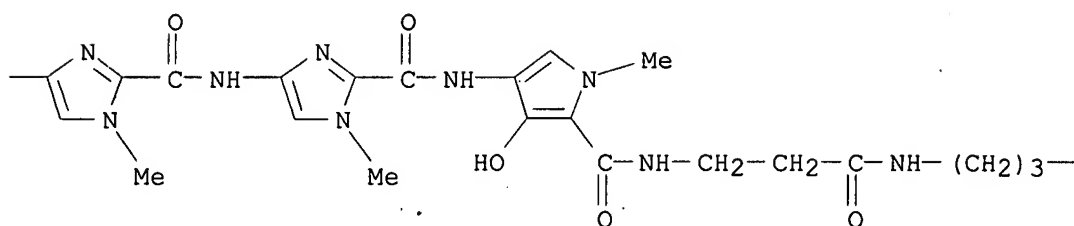
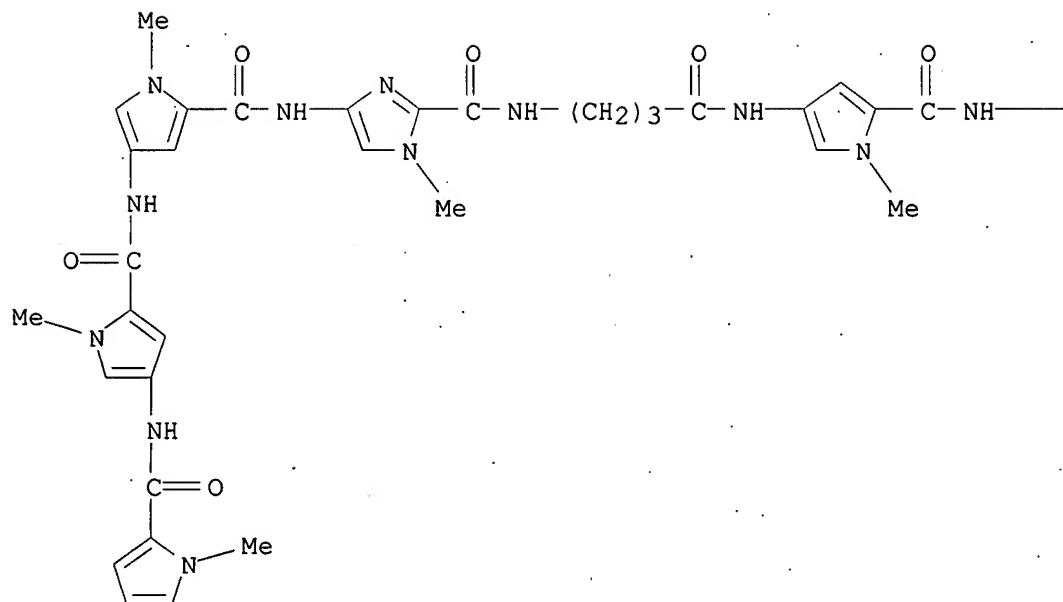
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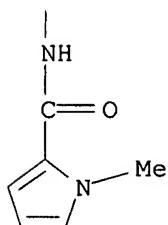
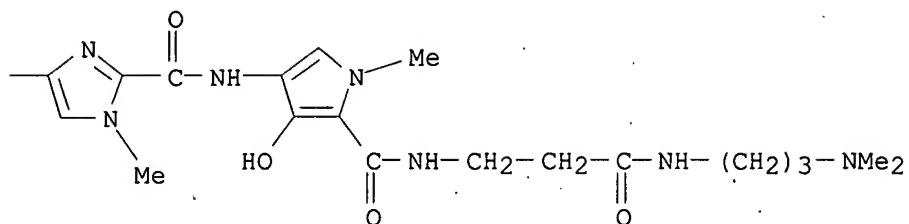
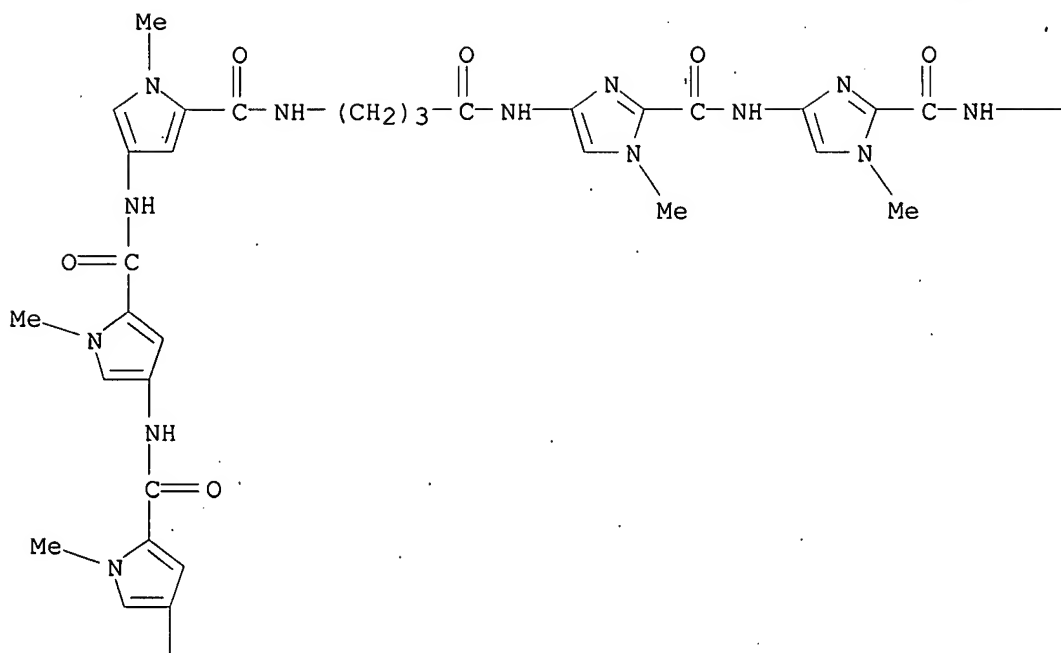


RN 212183-47-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



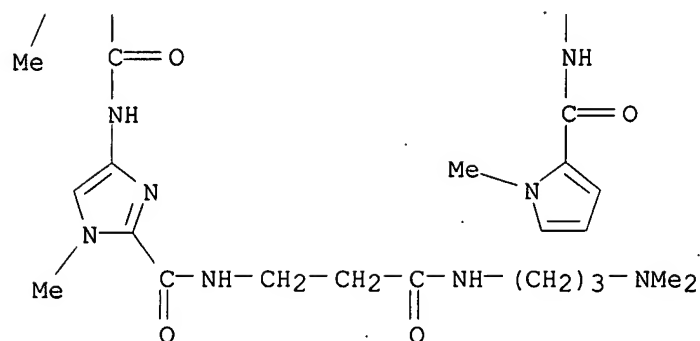
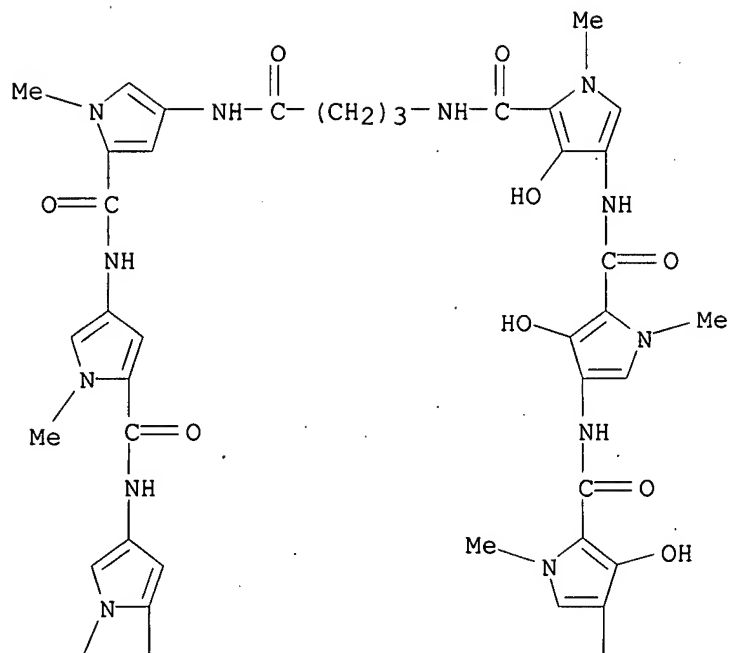
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RN 212183-49-8 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

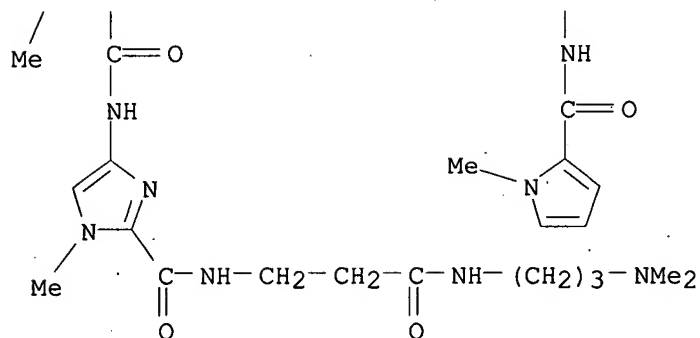
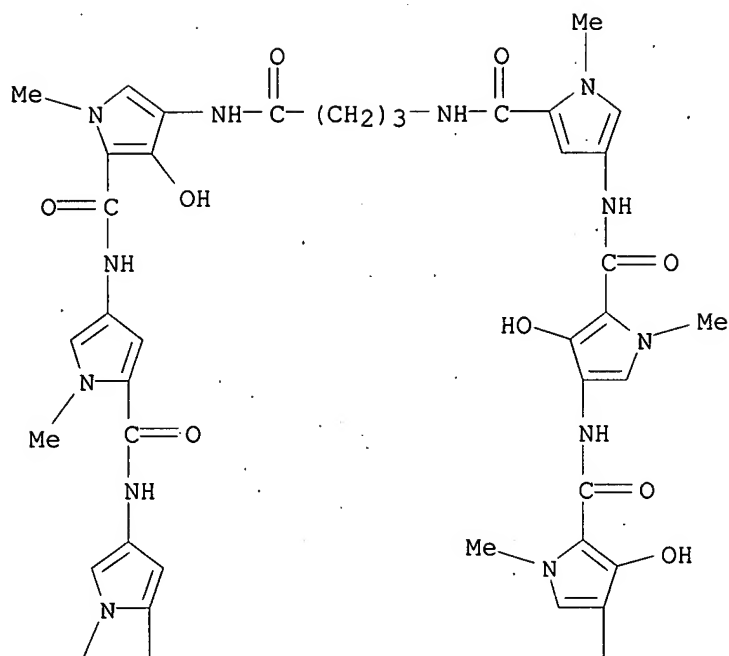


RN 212183-52-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

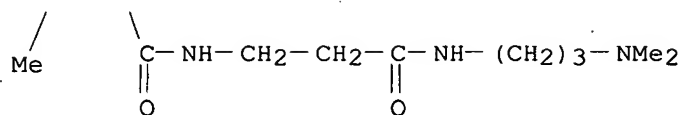
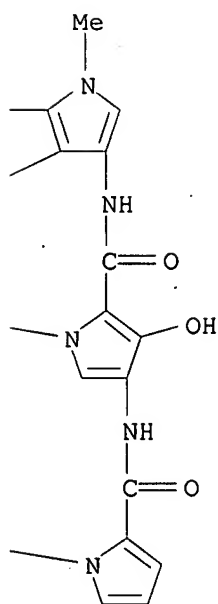
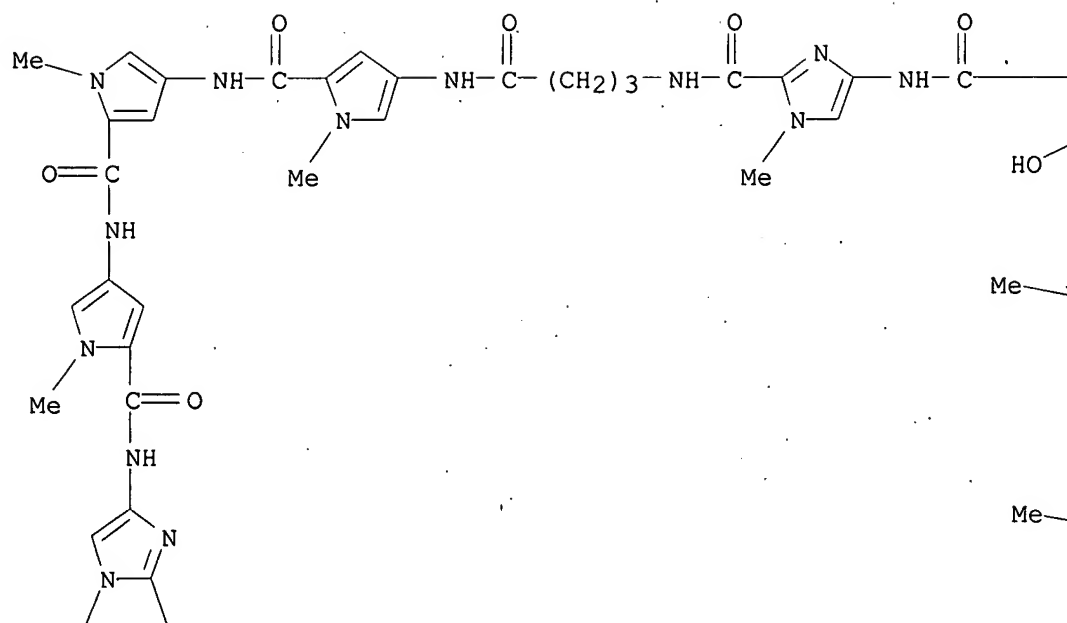




RN 212183-56-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

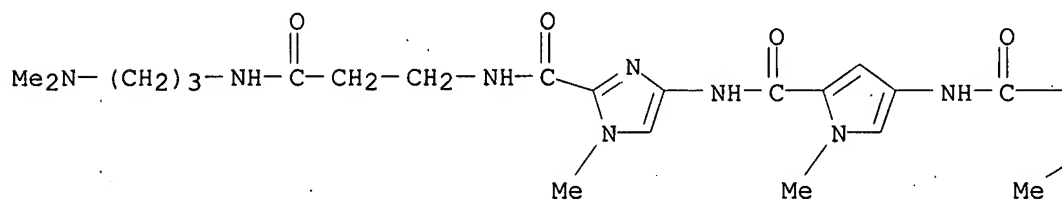


RN 212183-58-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

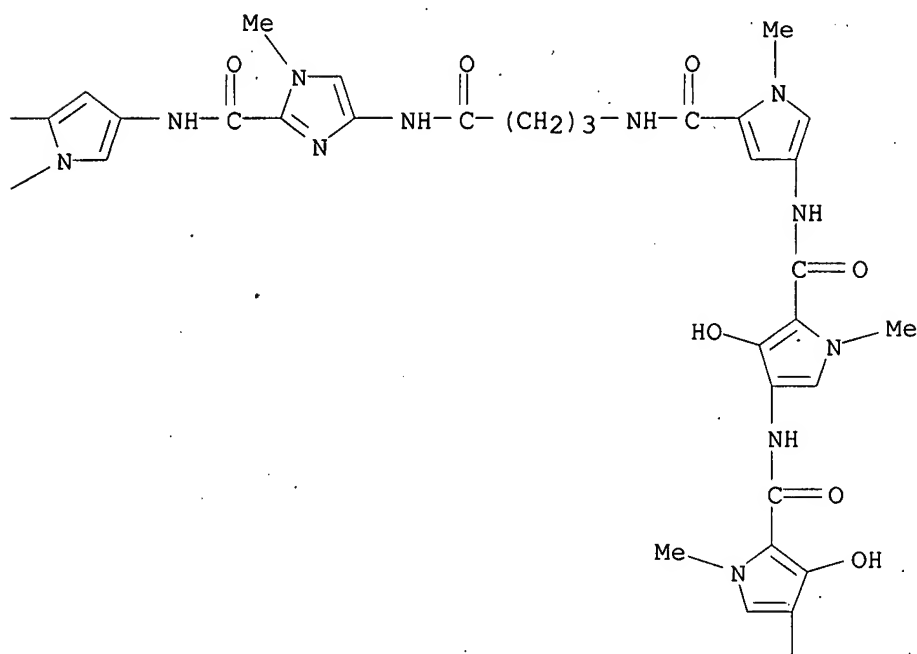


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

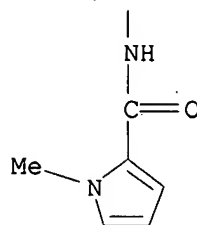
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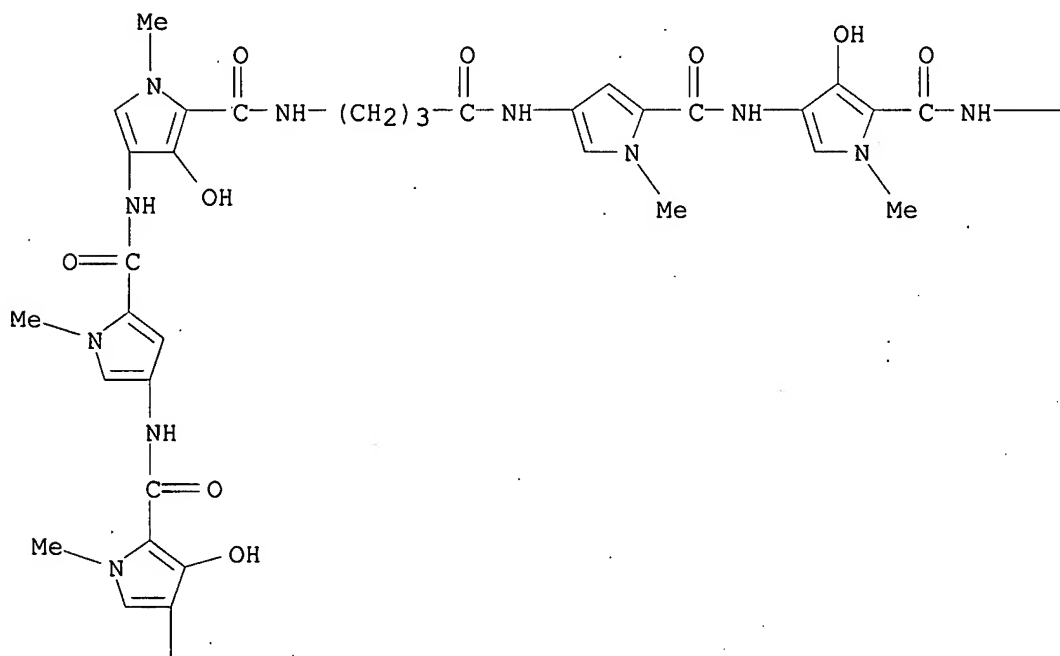


RN 212183-62-5 CAPLUS

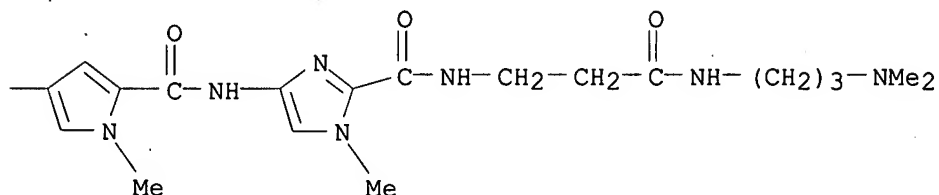
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-

methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

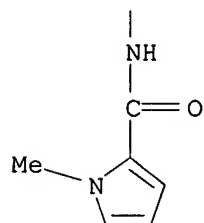
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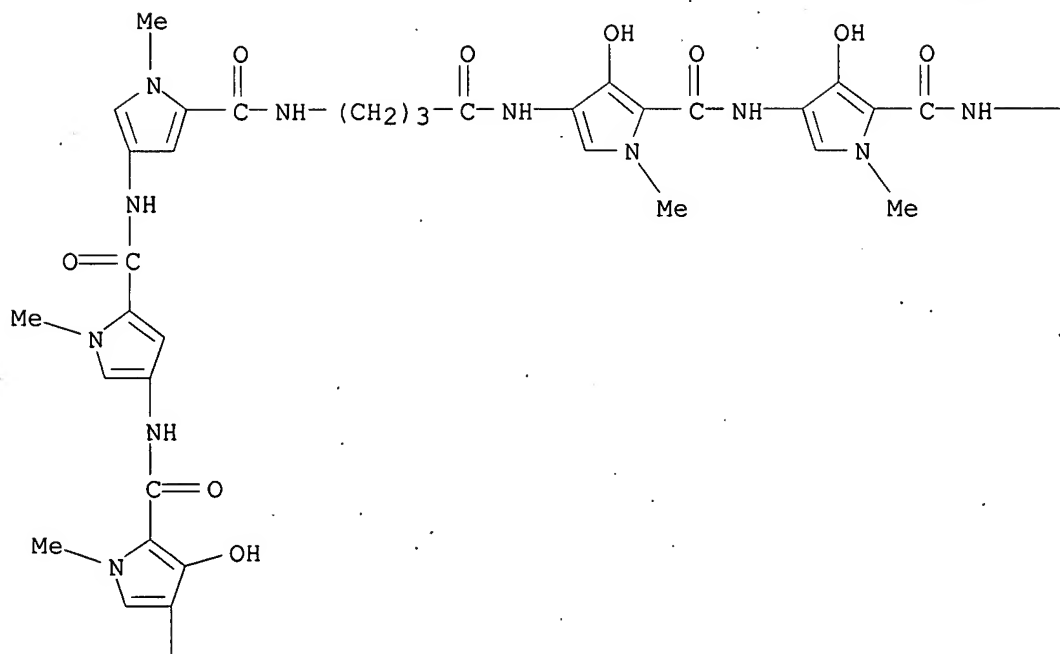


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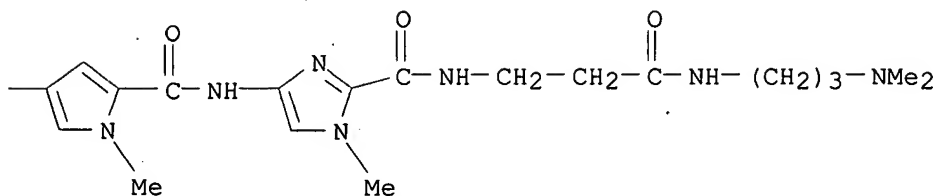


RN 212183-64-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

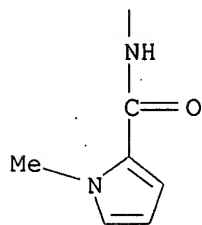
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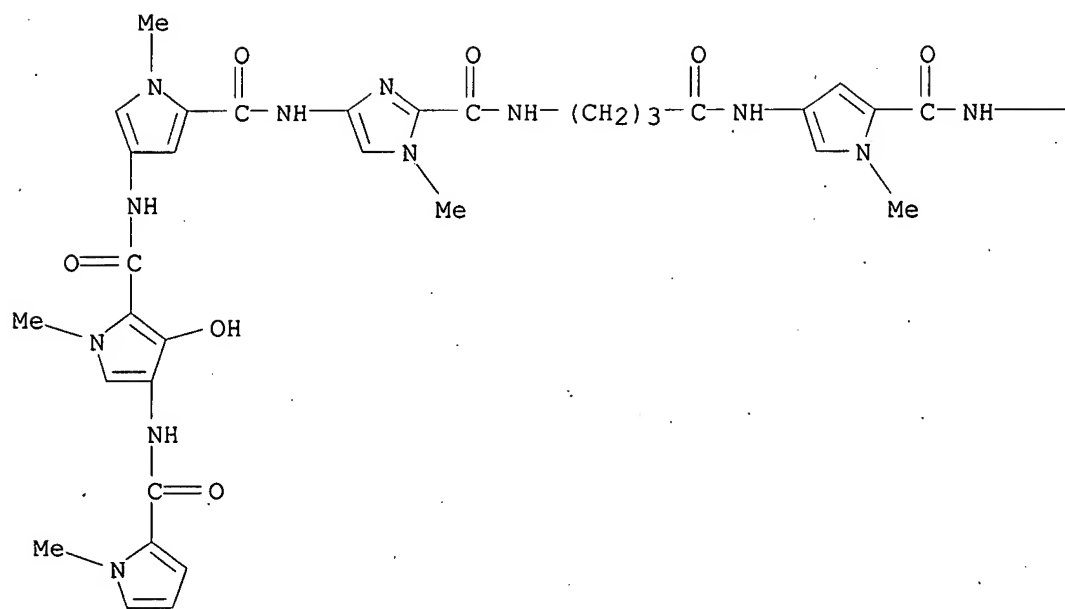


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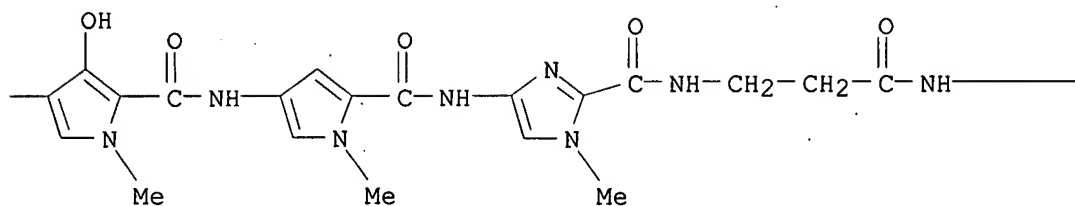


RN 212183-66-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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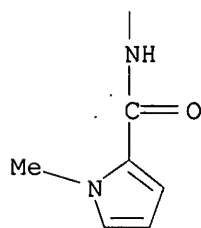
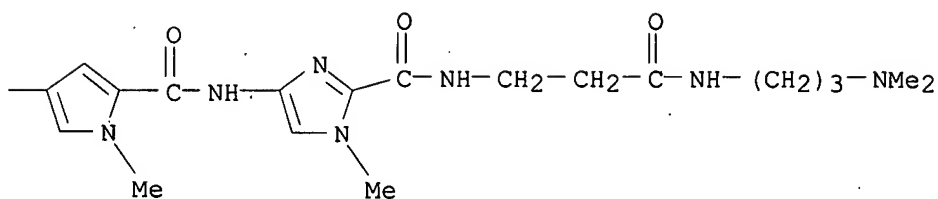
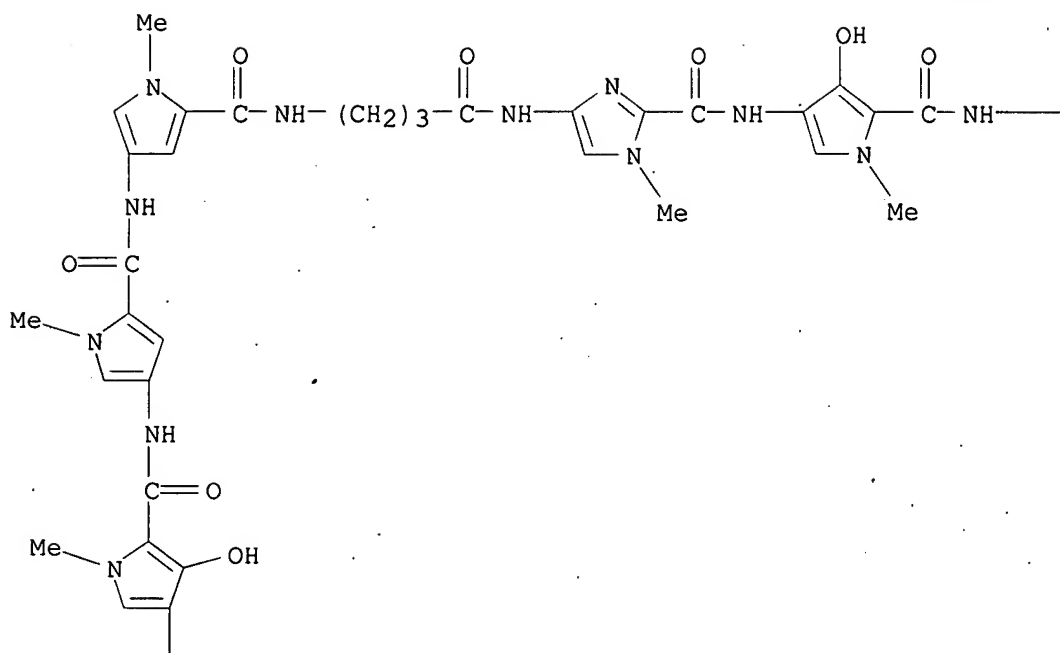
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— (CH<sub>2</sub>)<sub>3</sub>—NMe<sub>2</sub>

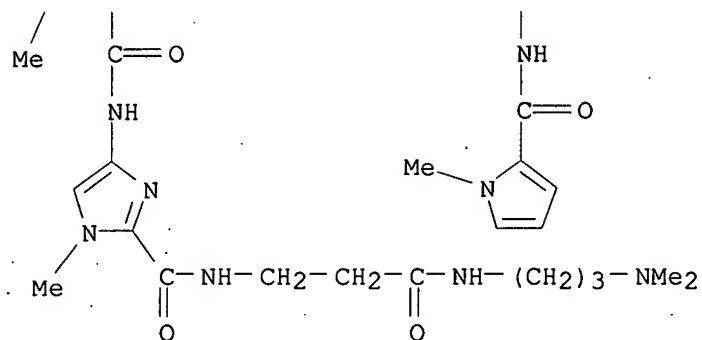
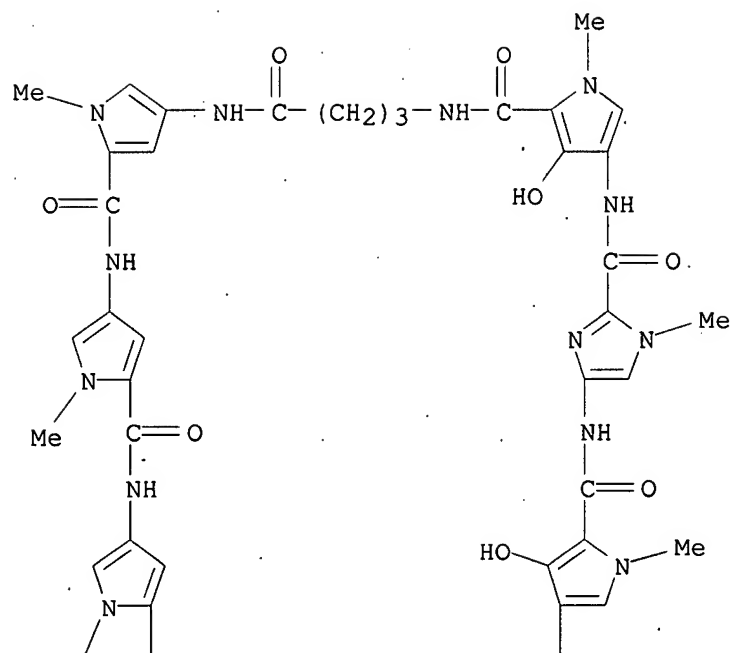
RN 212183-68-1 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



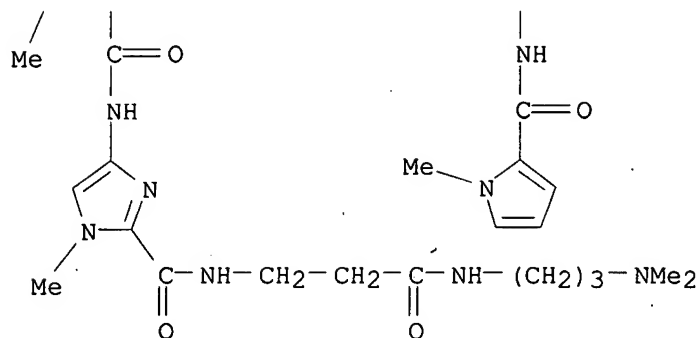
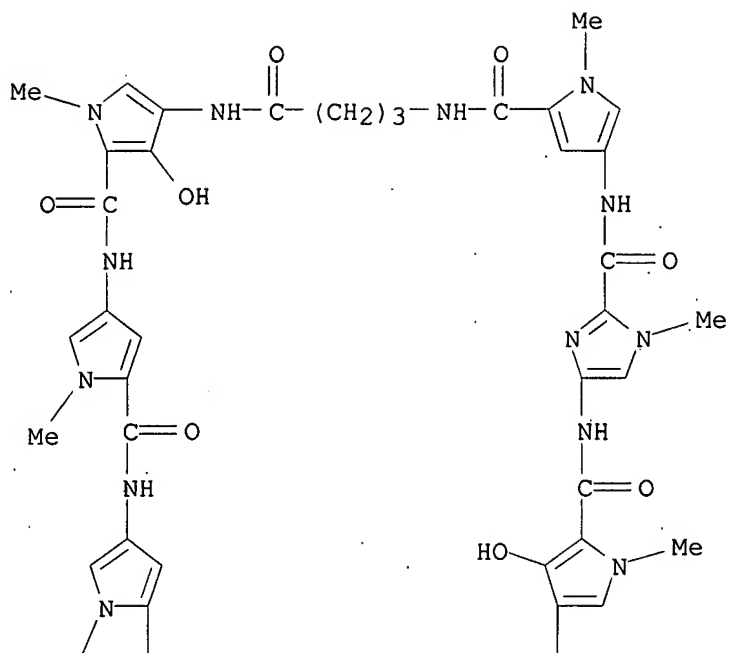
RN 212183-70-5 CAPLUS

CN     $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



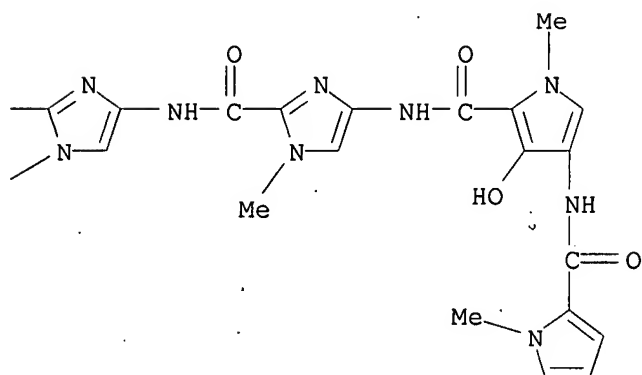
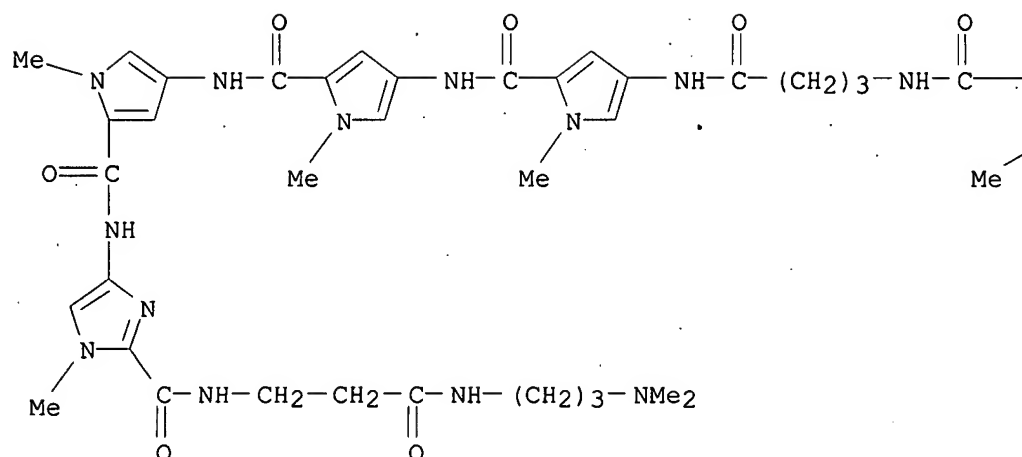


RN 212183-71-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



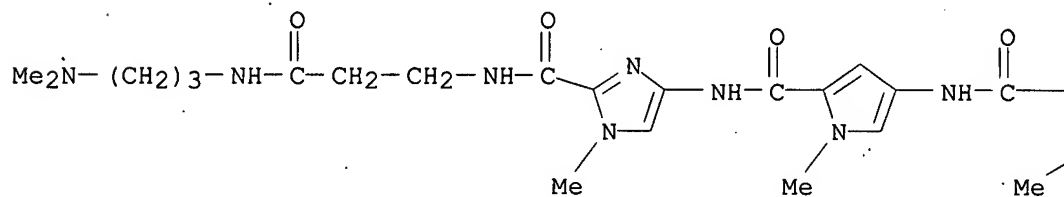
RN 212183-72-7 CAPLUS

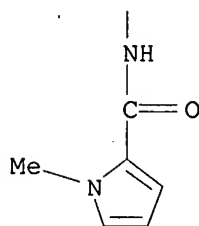
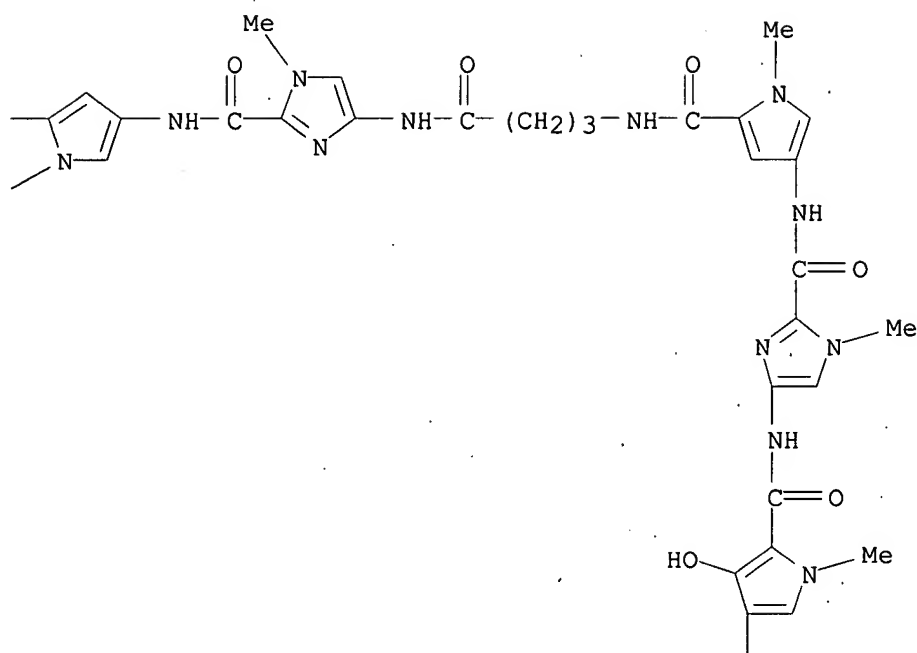
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



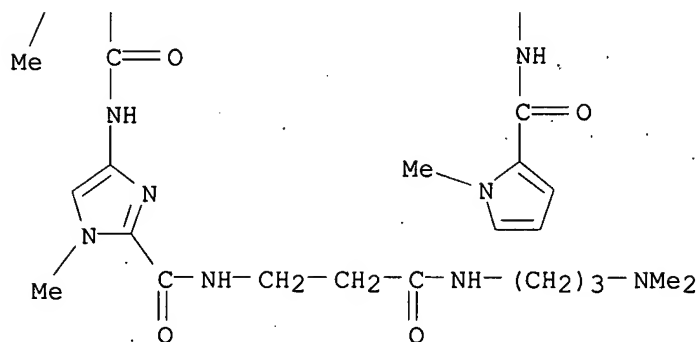
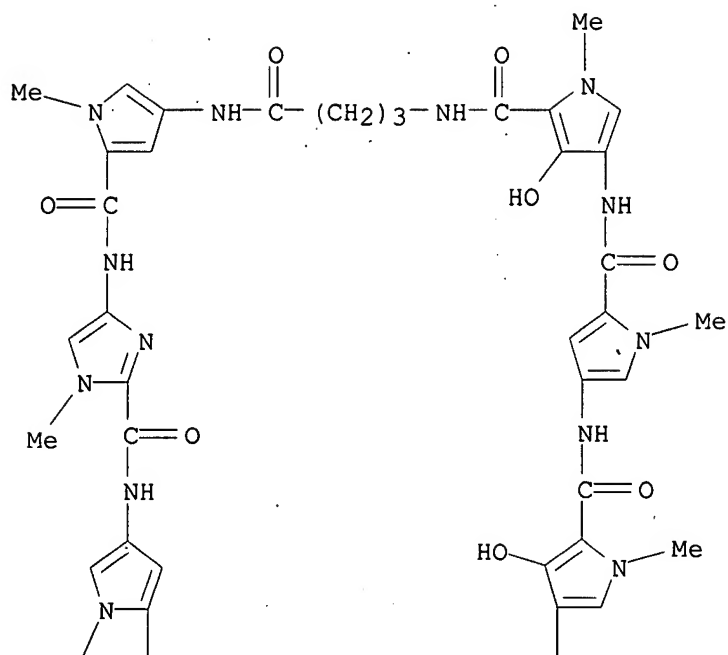
RN 212183-73-8 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

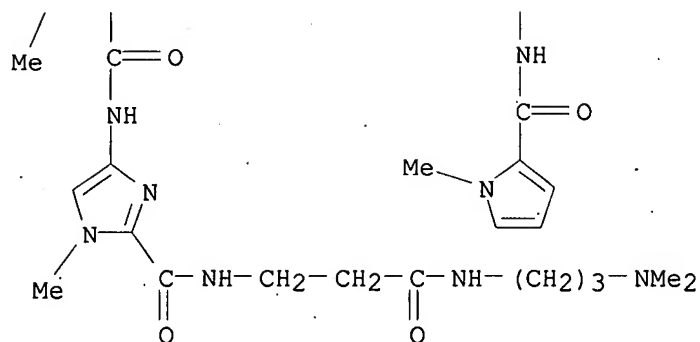
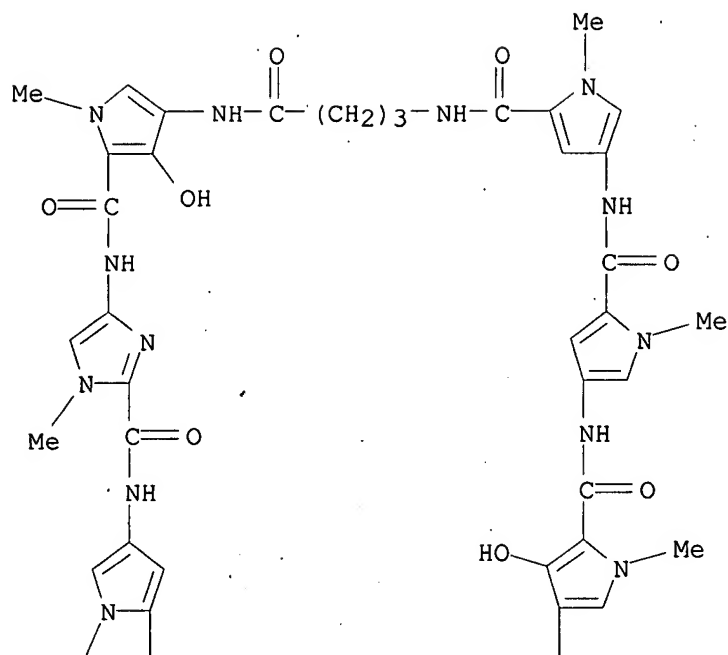




RN 212183-74-9 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

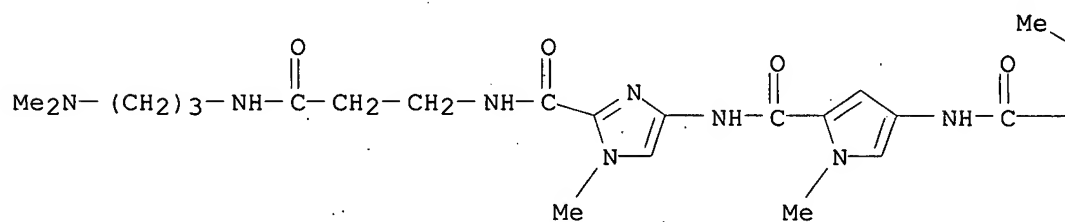


RN 212183-75-0 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

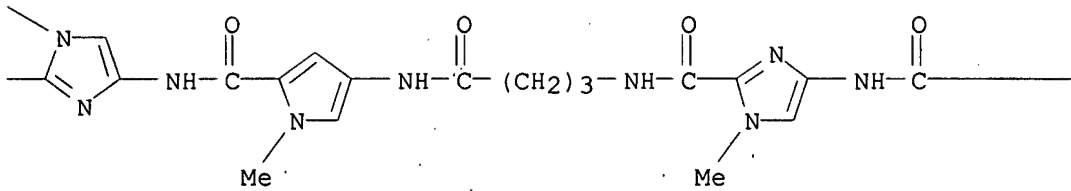


RN 212183-76-1 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



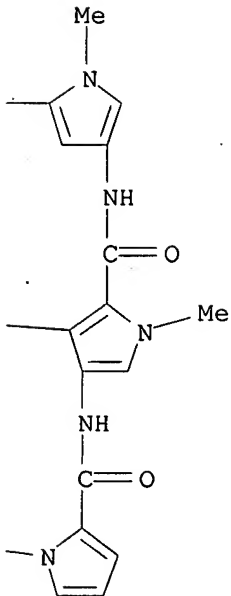
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HO—

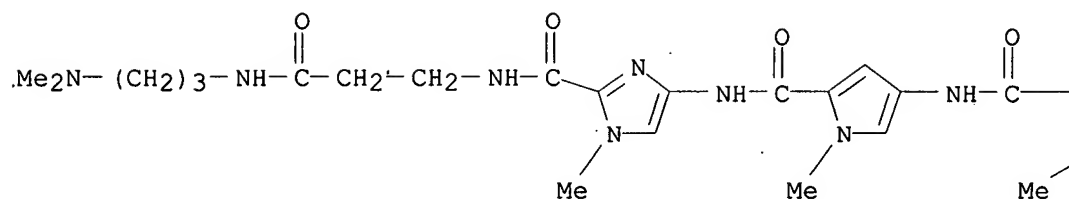
Me—

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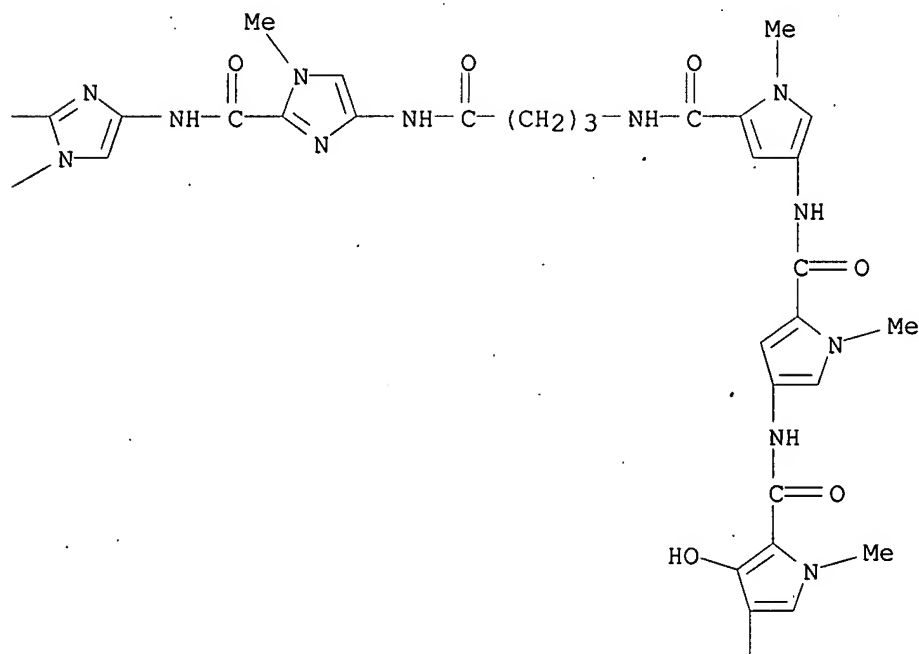


RN 212183-77-2 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

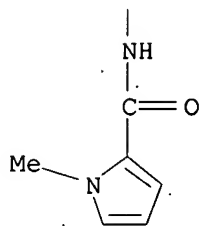
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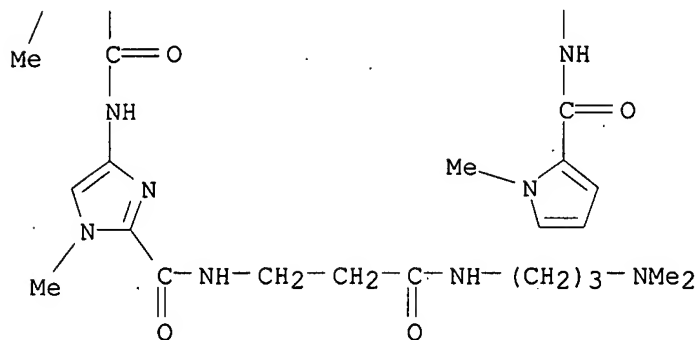
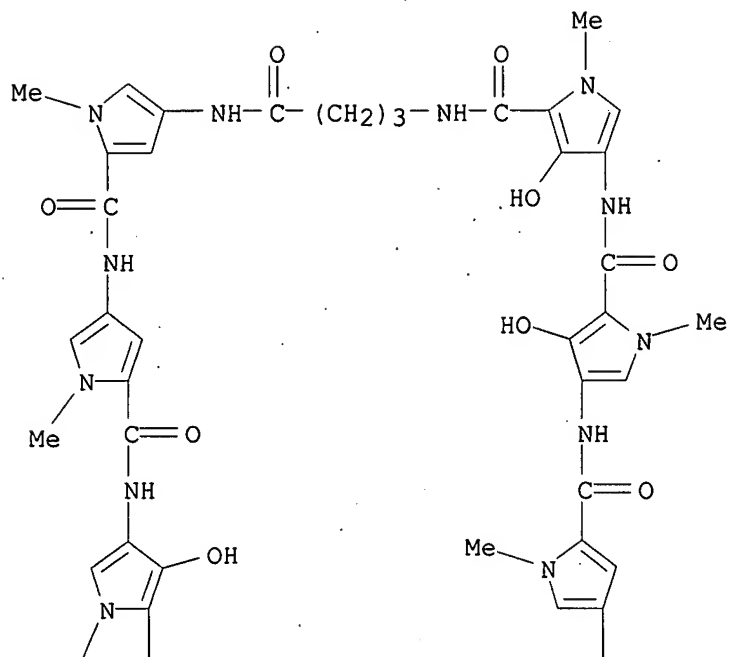


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RN 212183-78-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

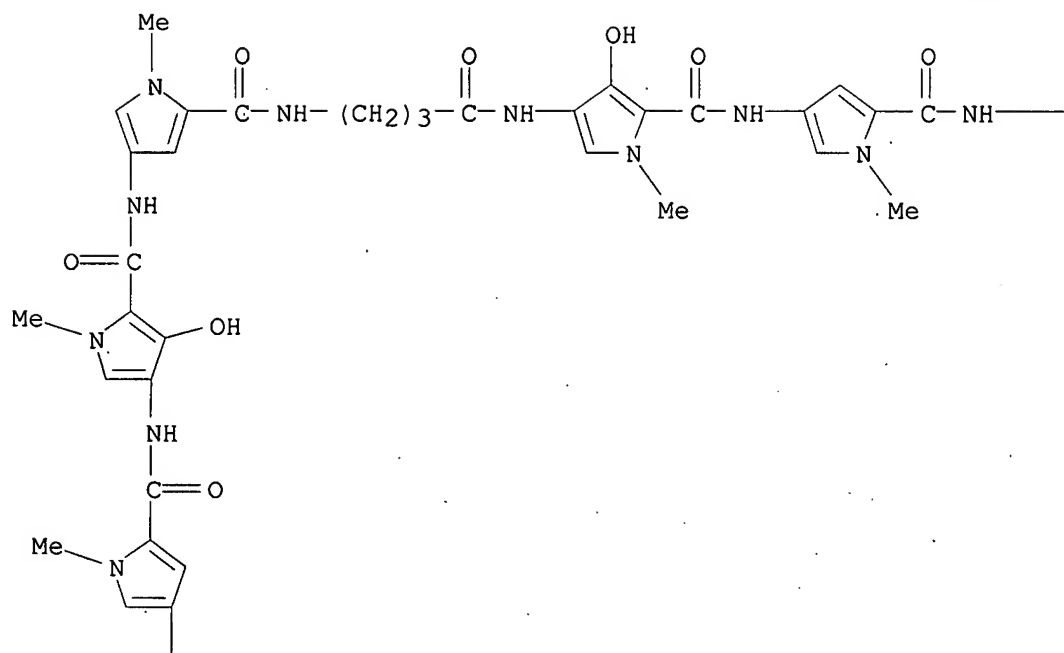




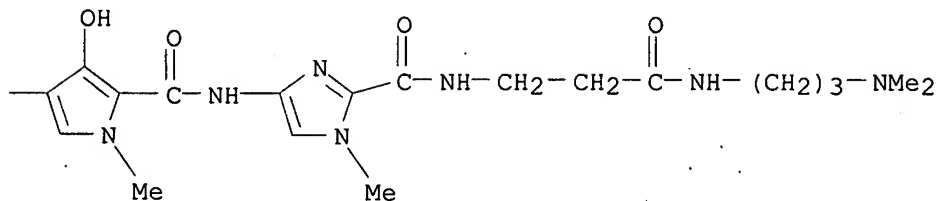
RN 212183-79-4 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

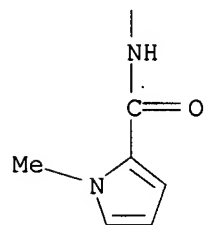
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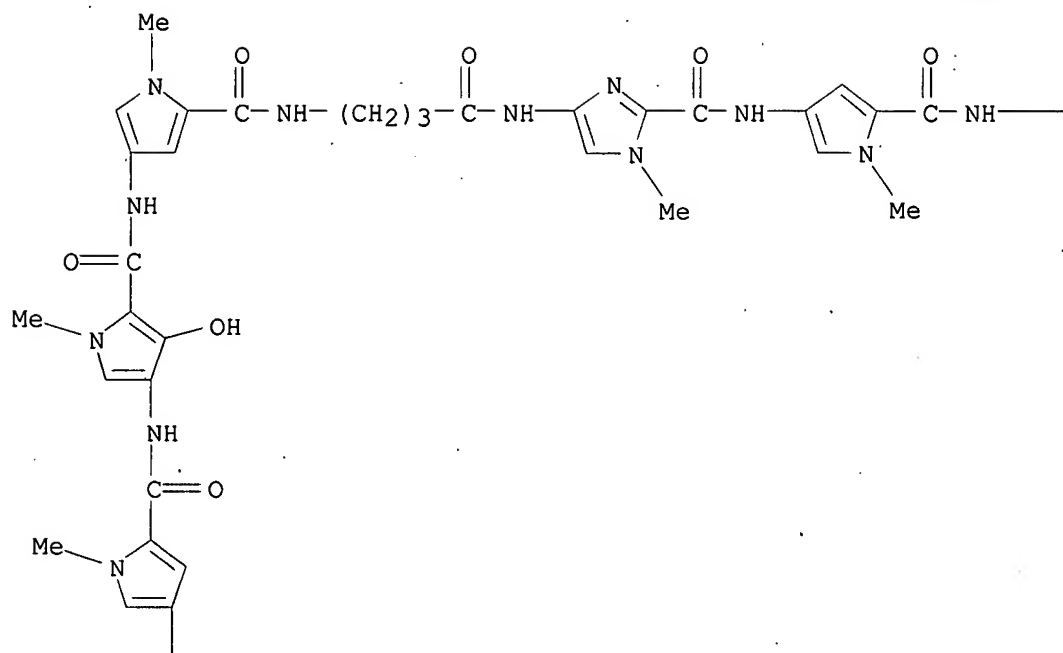


RN 212183-80-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

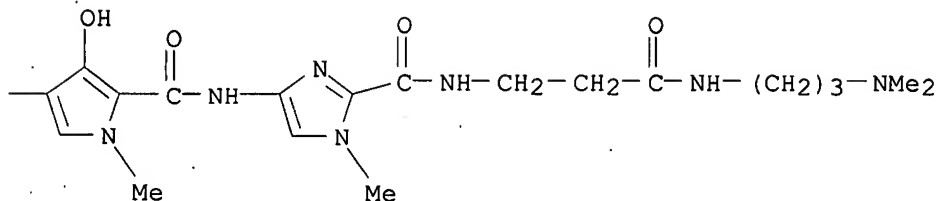
RN 212183-81-8 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

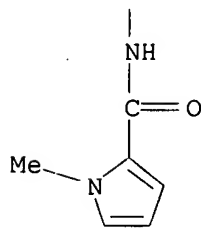
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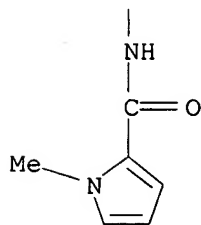
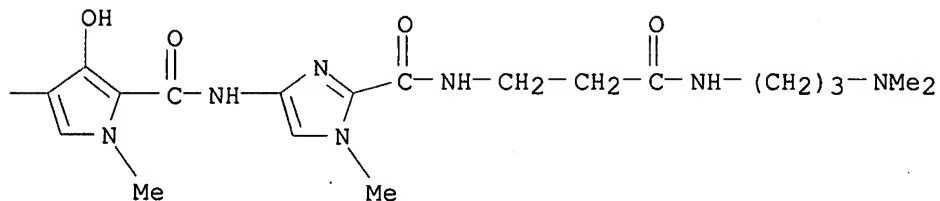
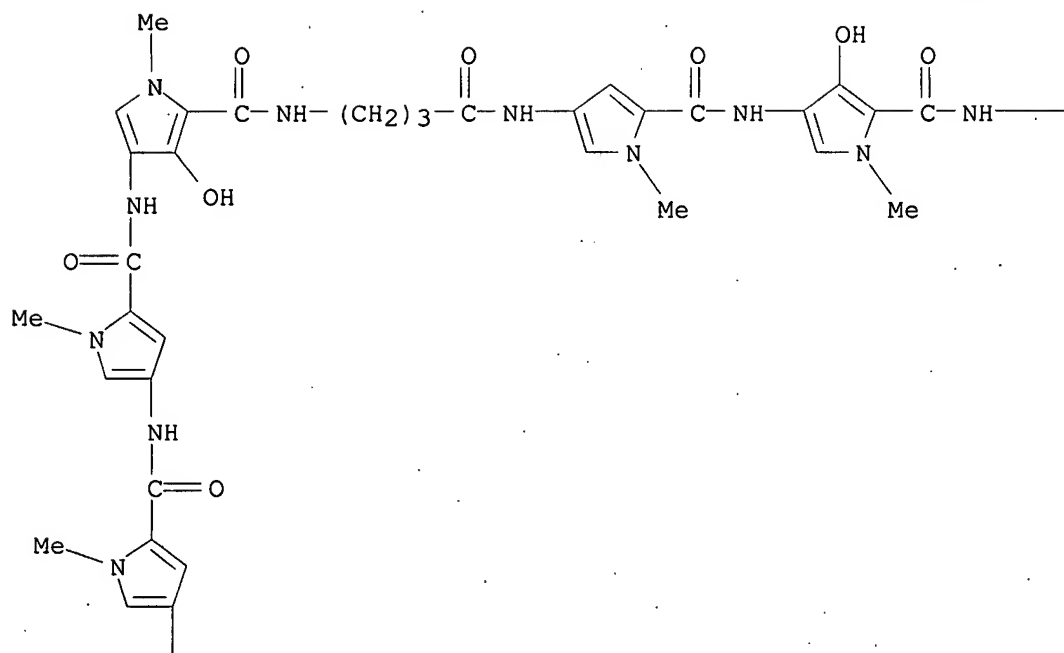
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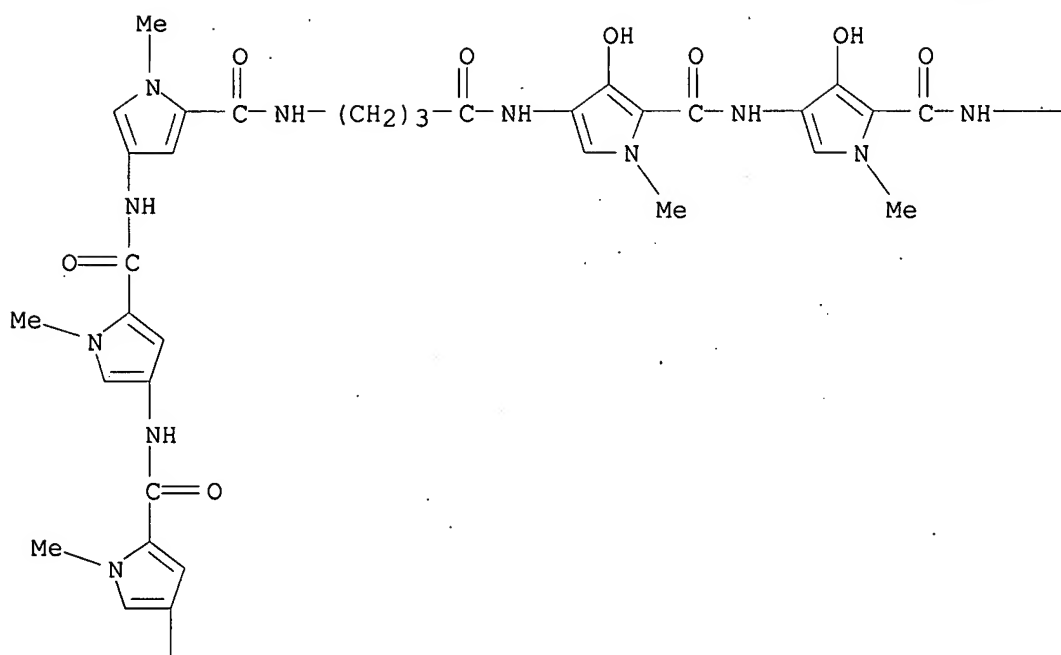


RN 212183-82-9 CAPLUS  
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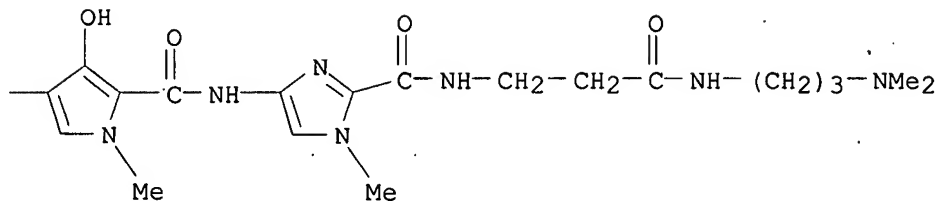


RN	212183-83-0	CAPLUS
CN	$\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)	

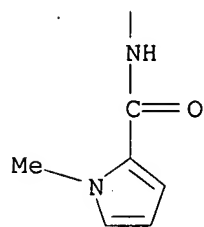
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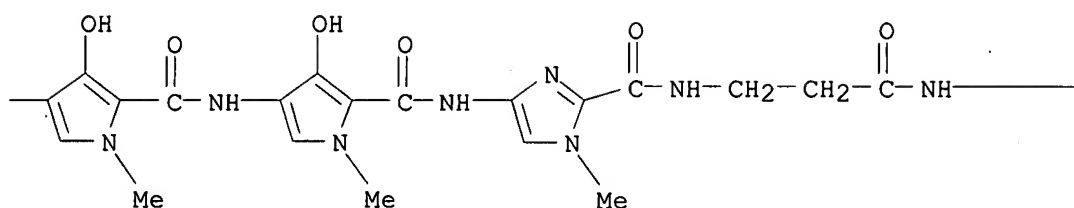
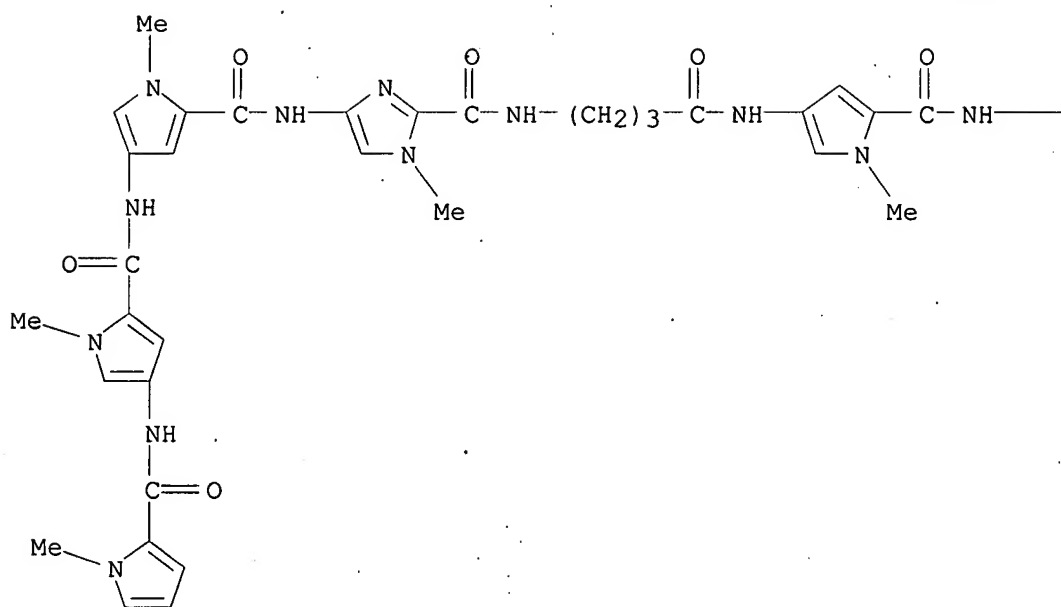
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RN 212183-84-1 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

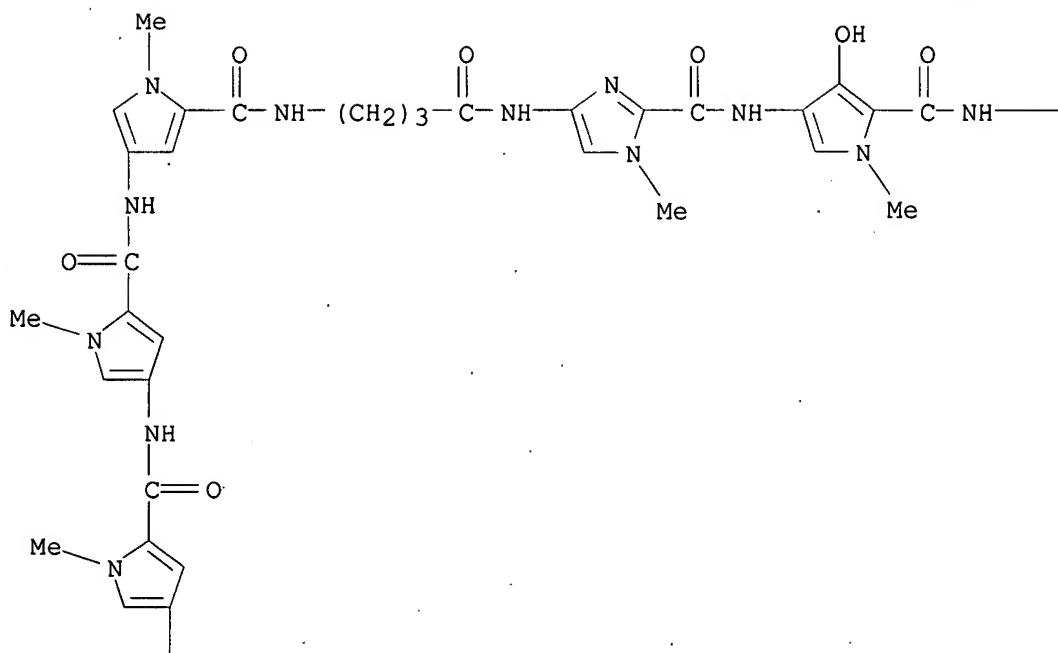


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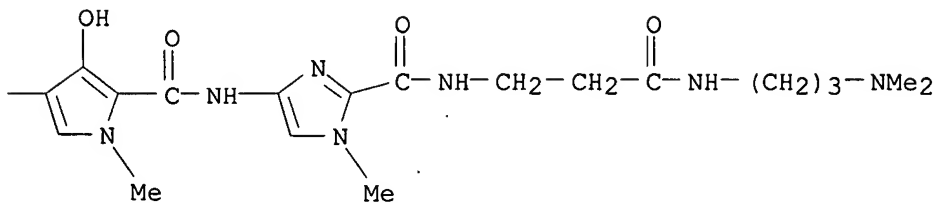
RN 212183-85-2 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

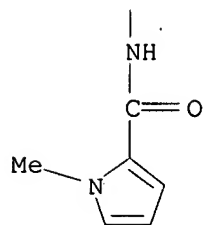
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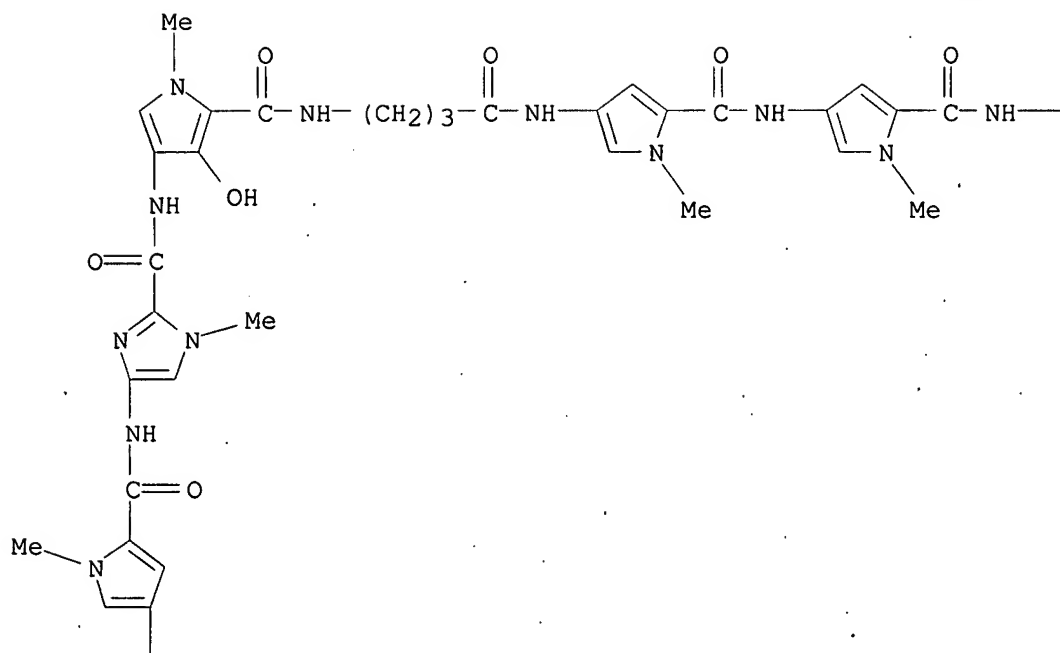
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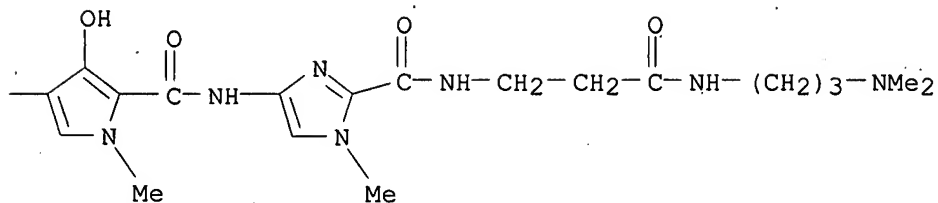
RN 212183-86-3 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



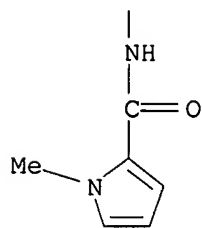
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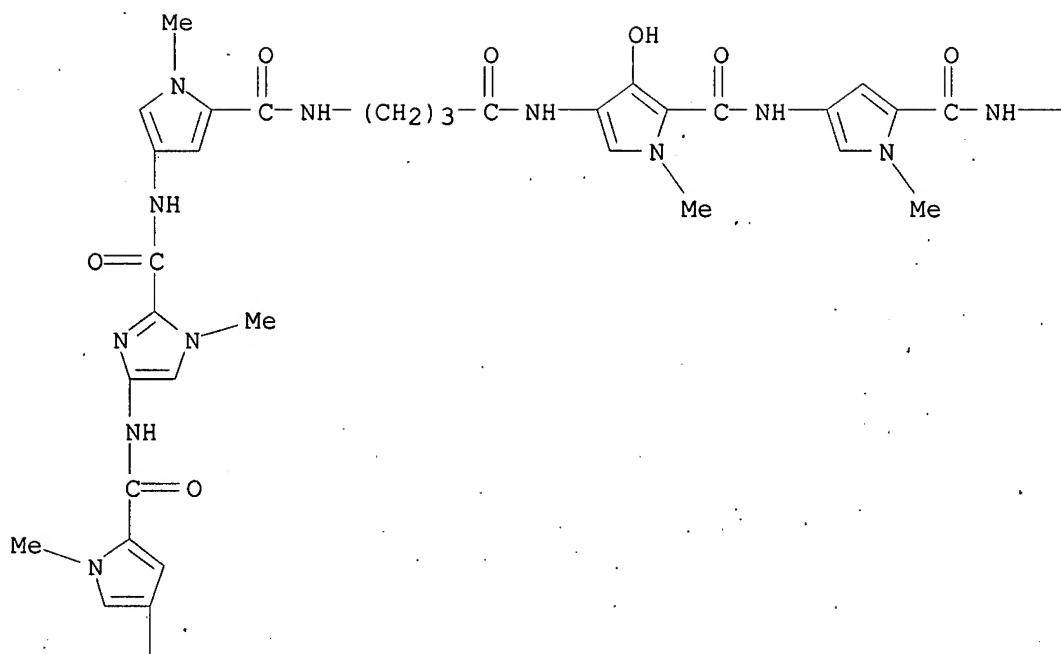


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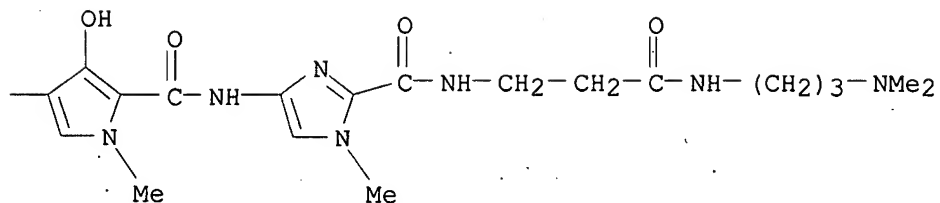


RN 212183-87-4 CAPLUS  
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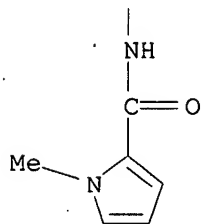
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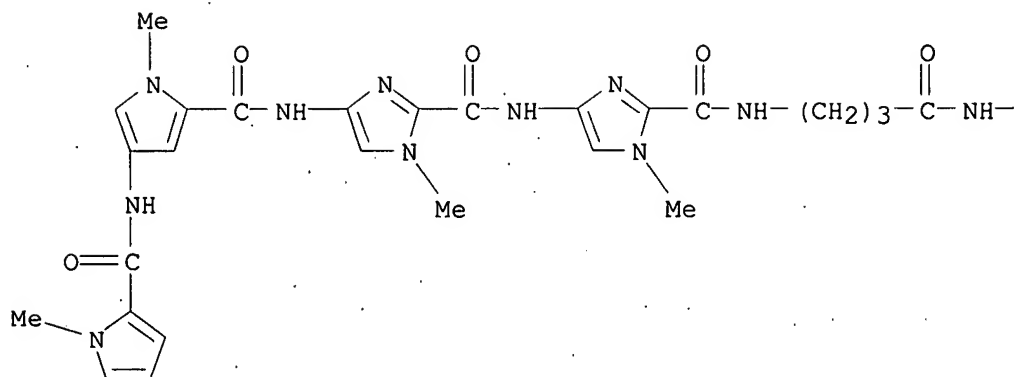


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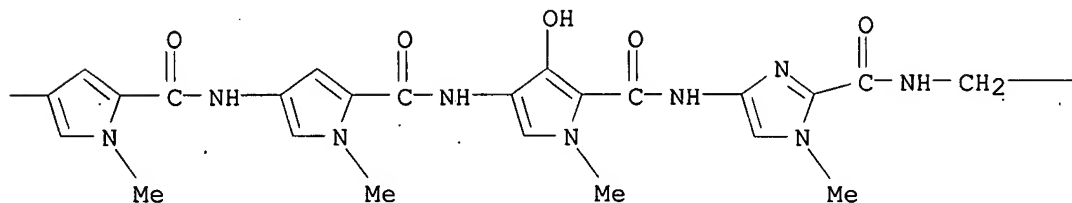


RN 212183-88-5 CAPLUS  
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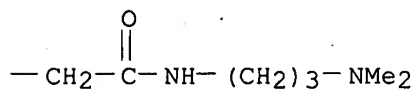
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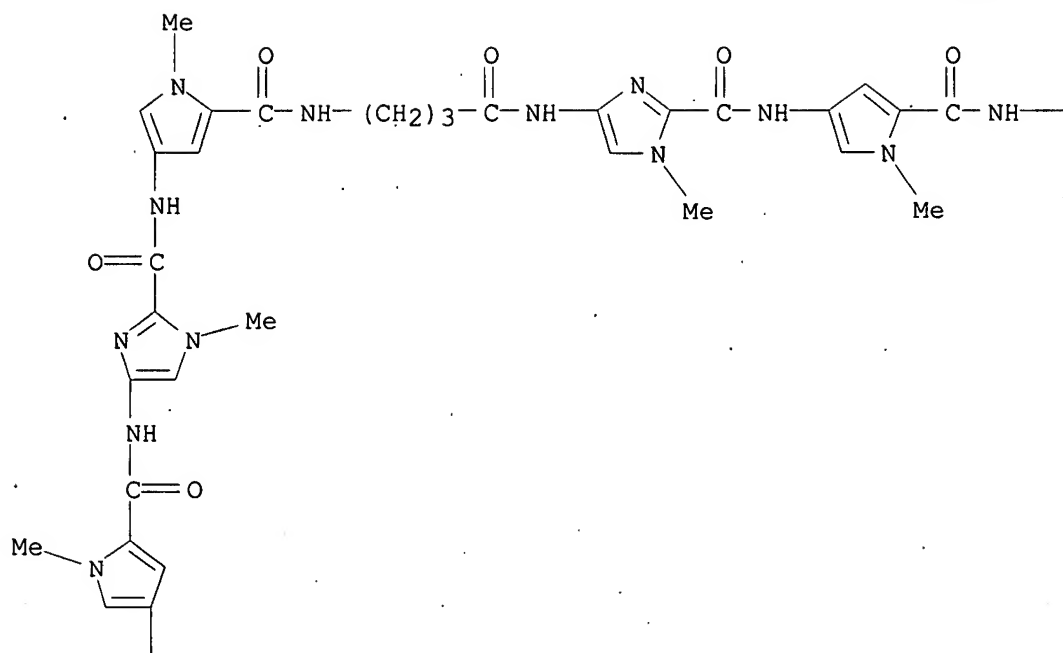
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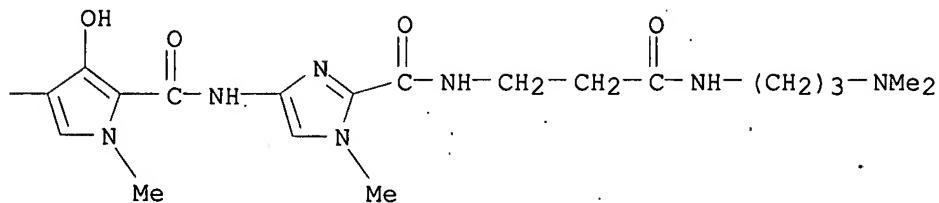
RN 212183-89-6 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

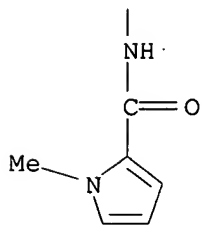
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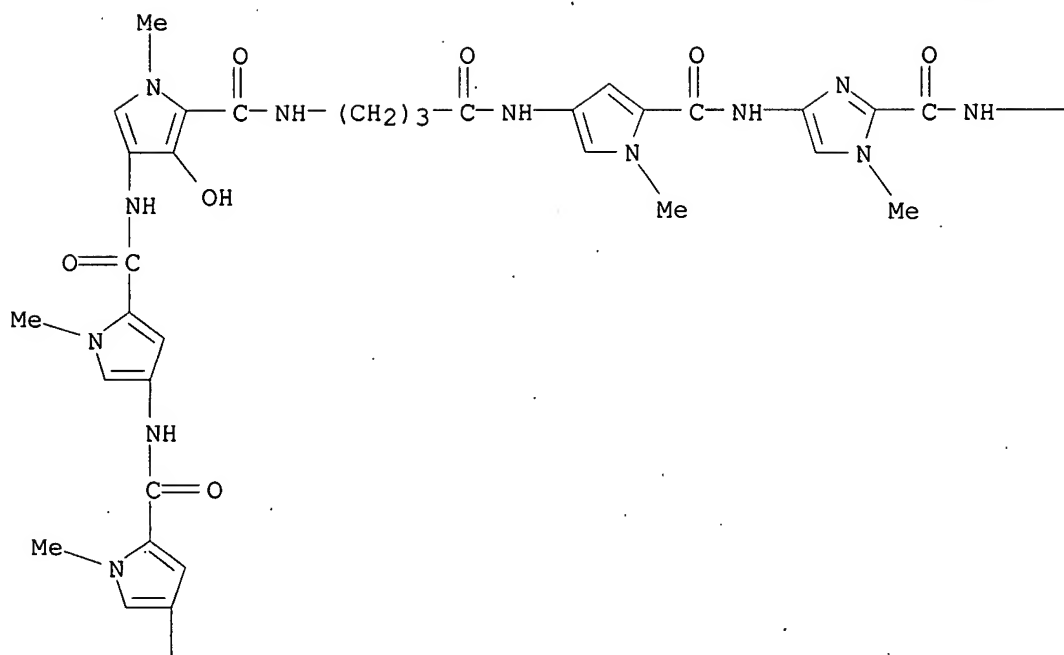


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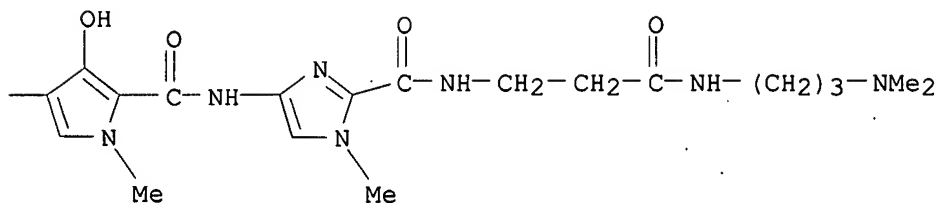


RN 212183-90-9 CAPLUS  
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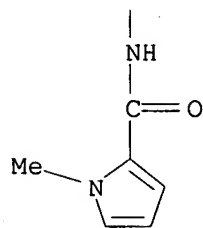
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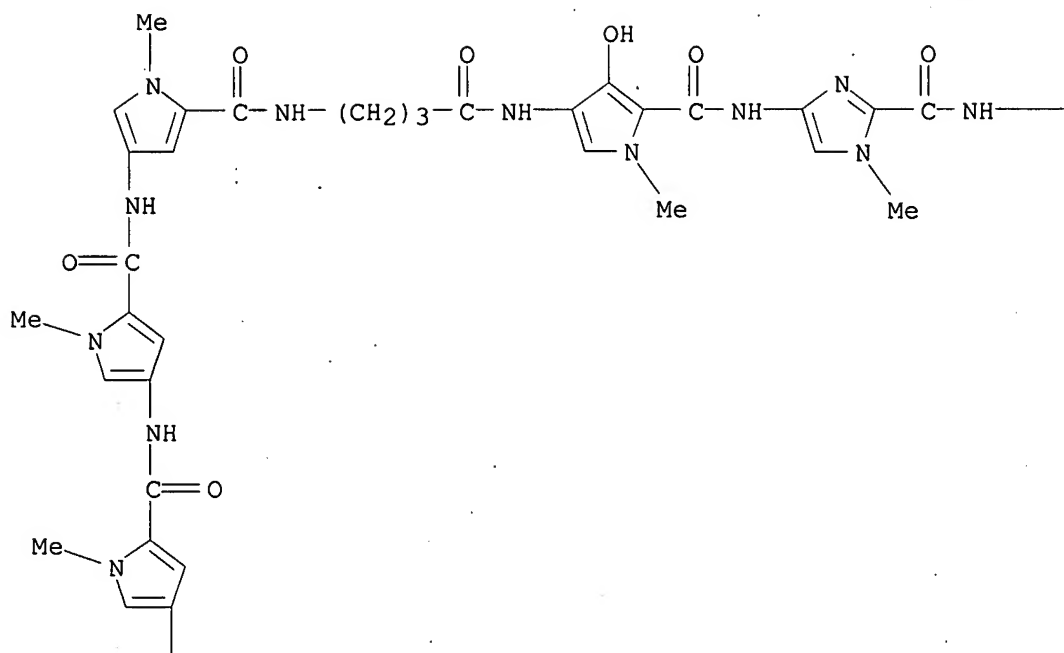


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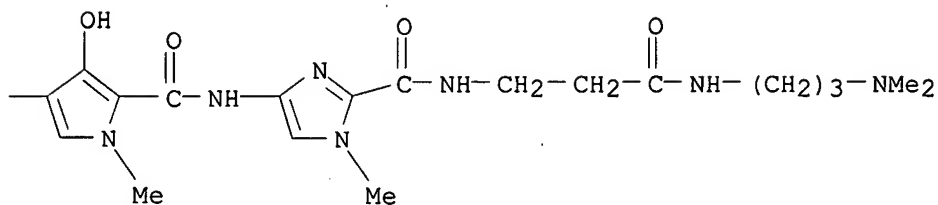


RN 212183-91-0 CAPLUS  
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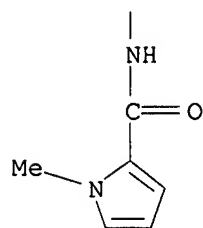
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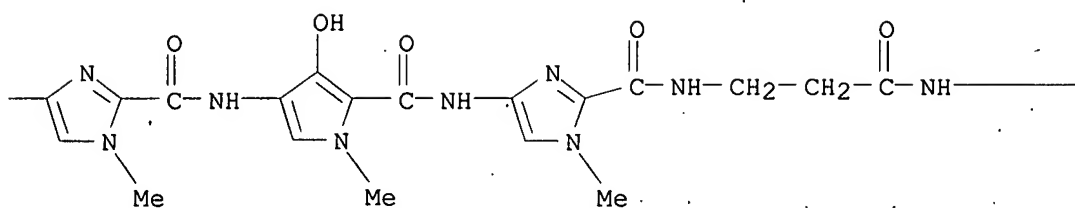
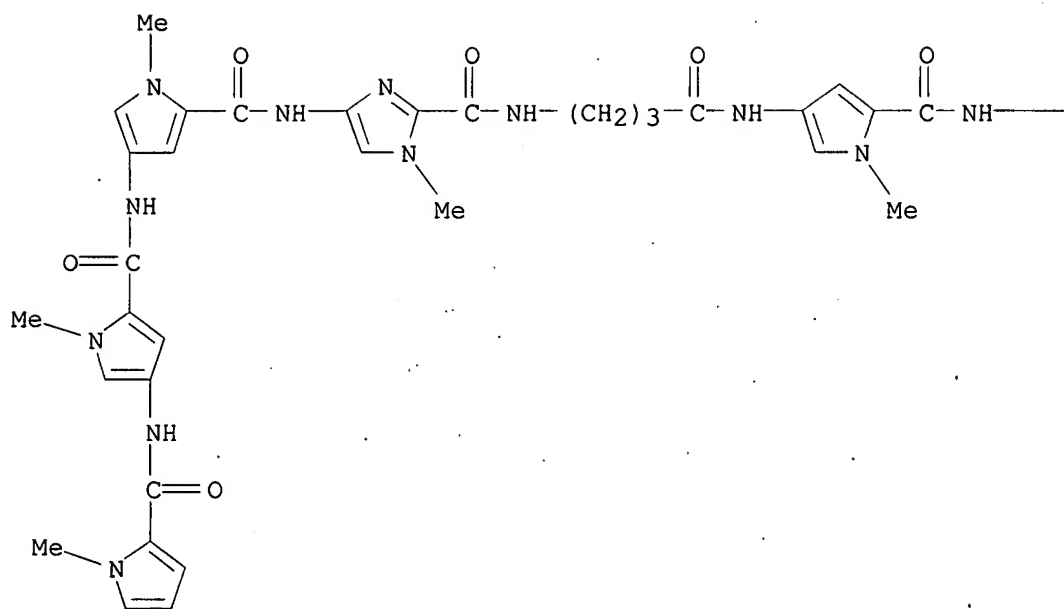
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RN 212183-92-1 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

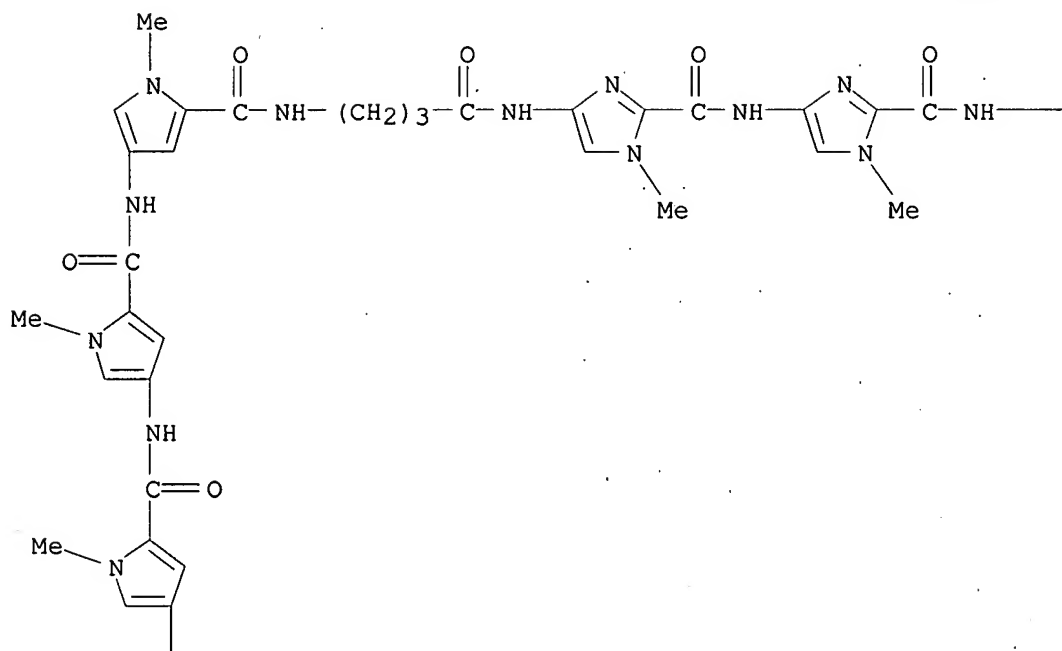


— (CH<sub>2</sub>)<sub>3</sub>—NMe<sub>2</sub>

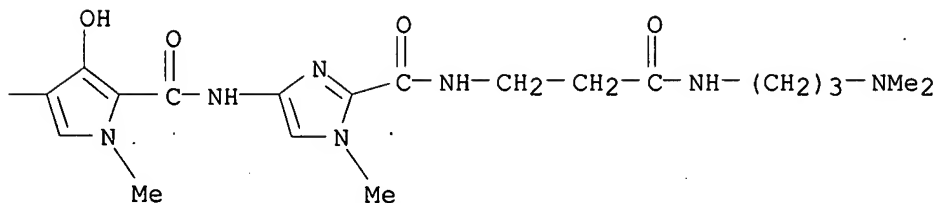
RN 212183-93-2 CAPLUS

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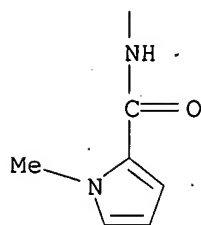
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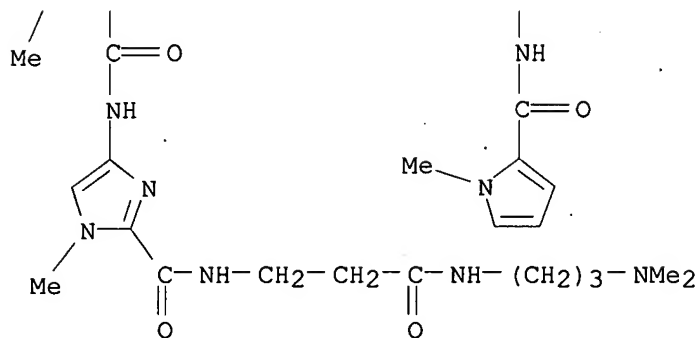
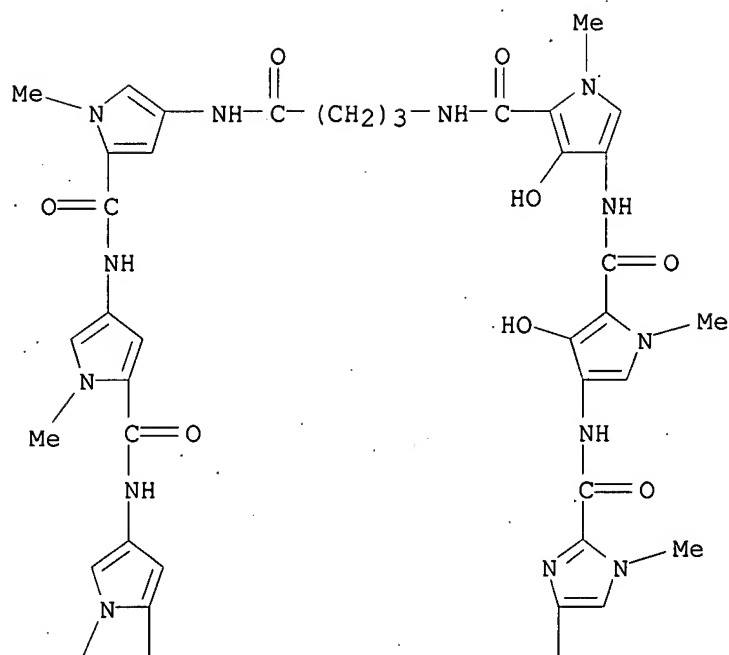


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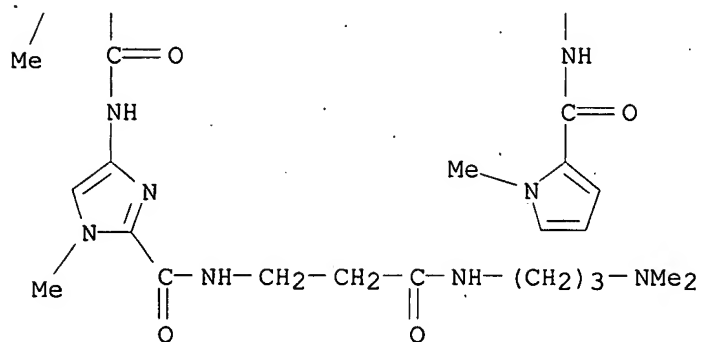
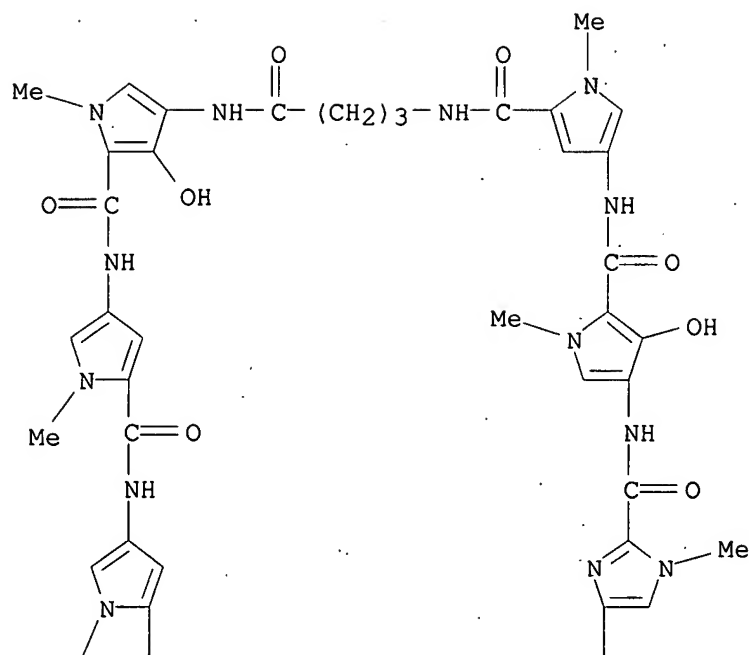


RN 212183-94-3 CAPLUS  
 CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



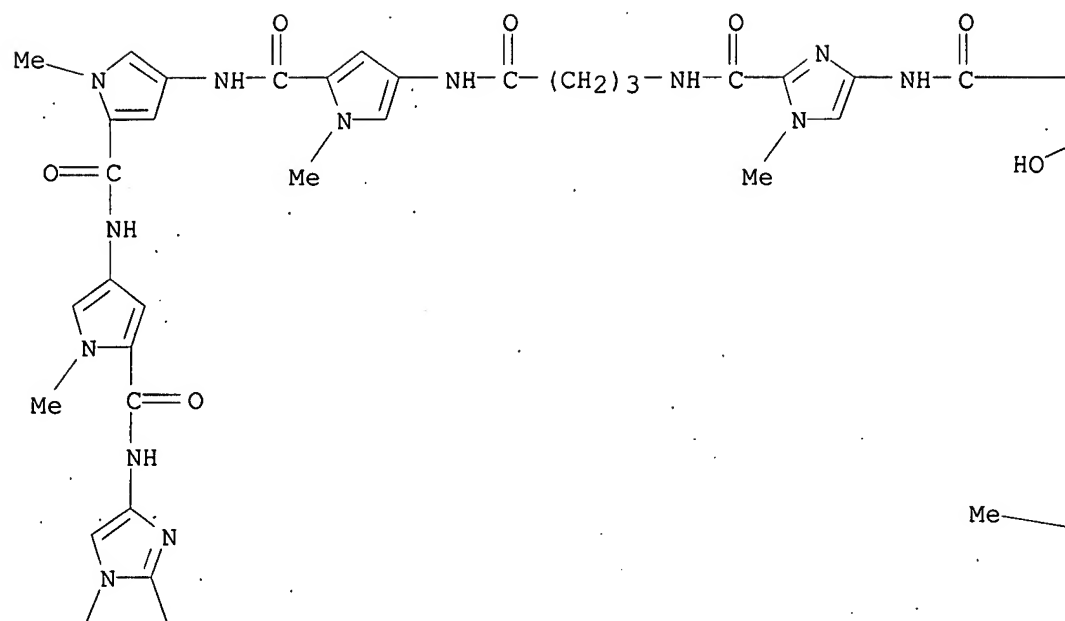


RN 212183-95-4 CAPLUS  
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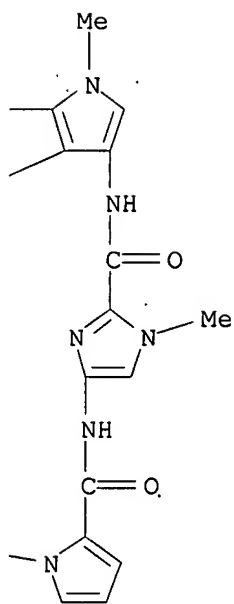
RN 212183-96-5 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]-(9CI) (CA INDEX NAME)

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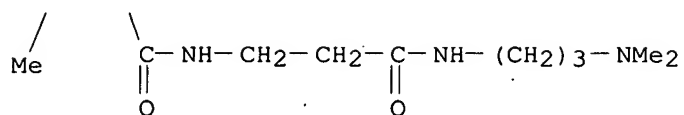


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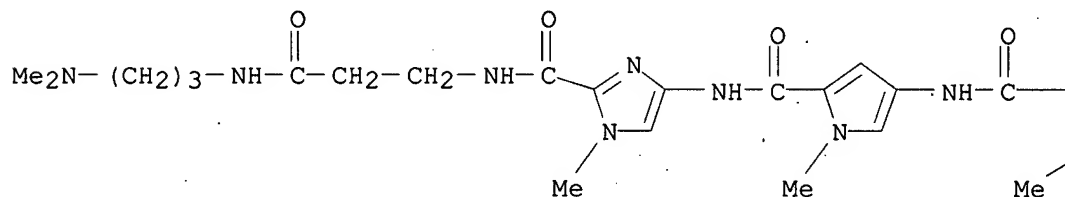


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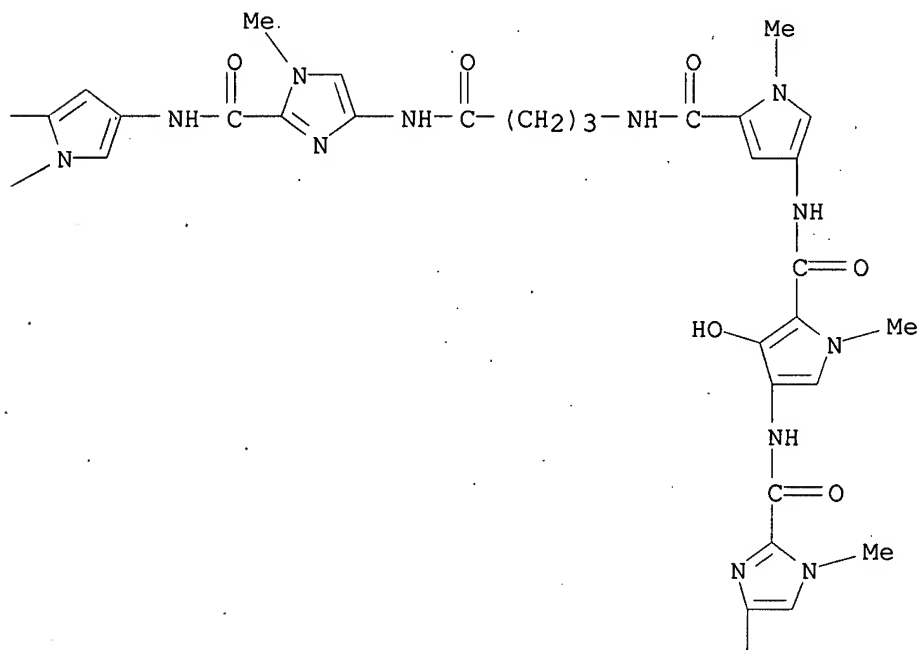


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprölyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

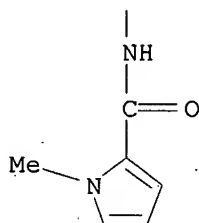
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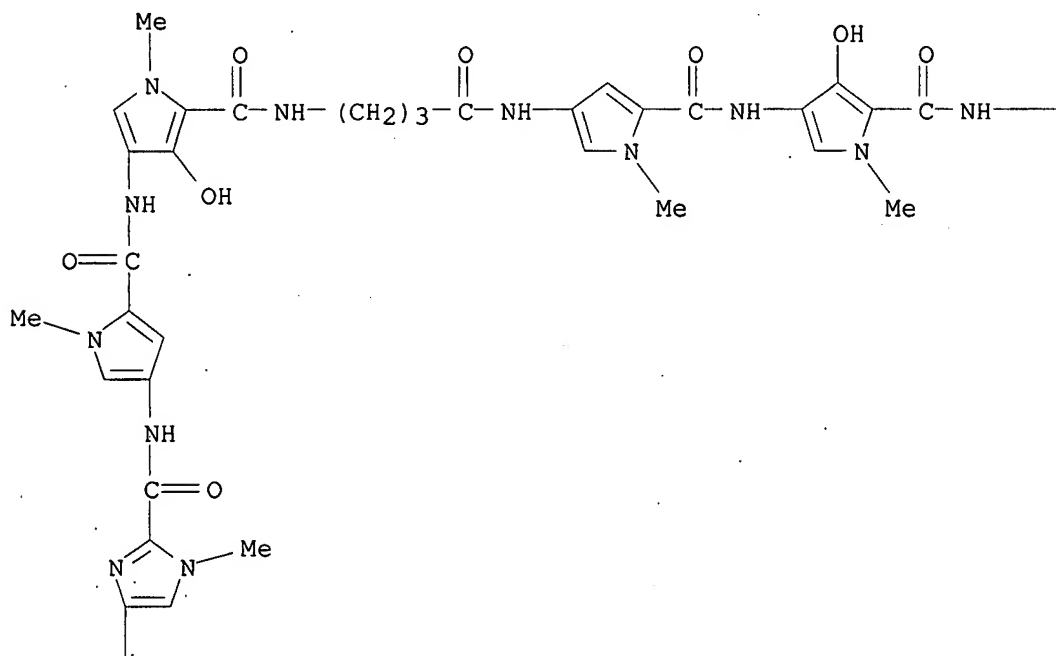


RN 212183-98-7 CAPLUS

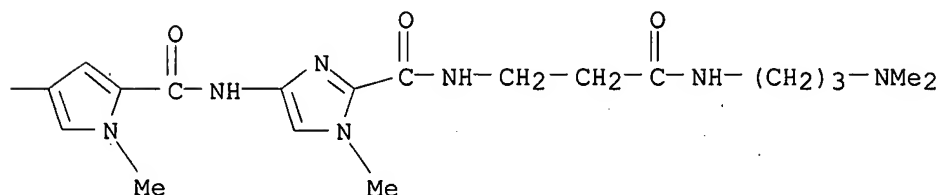
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-

pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

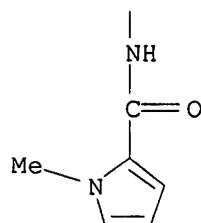
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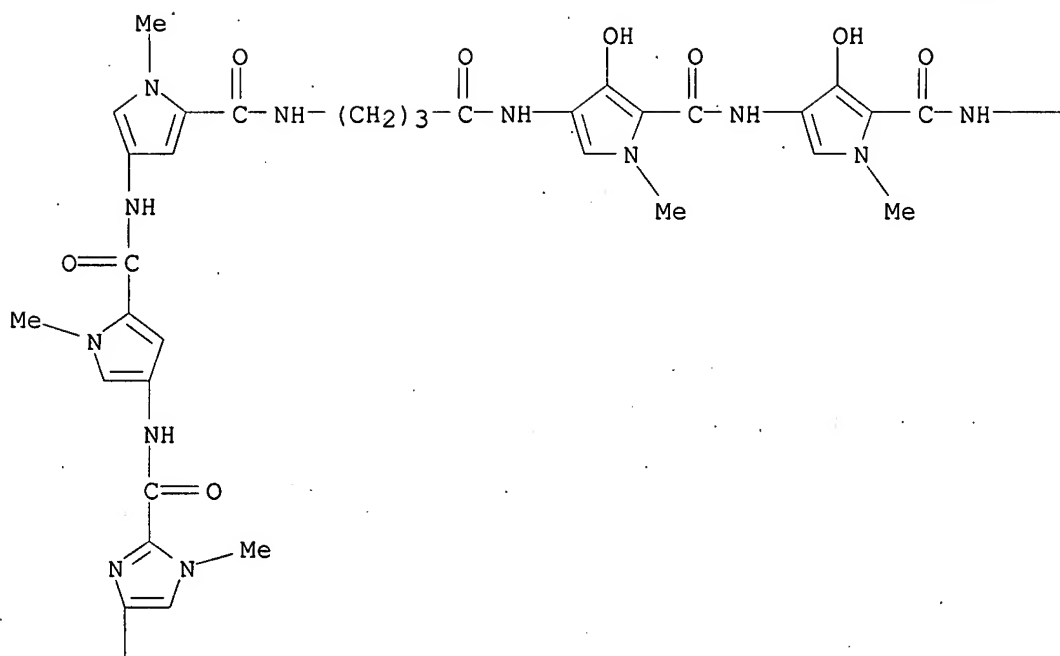
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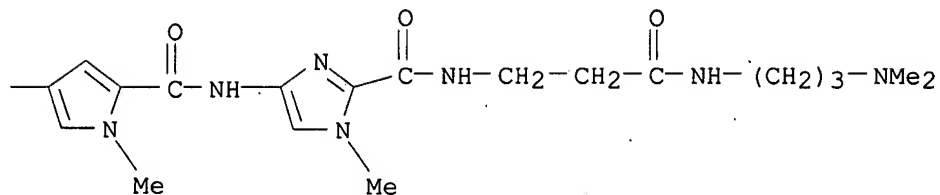
RN 212183-99-8 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

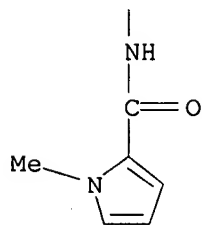
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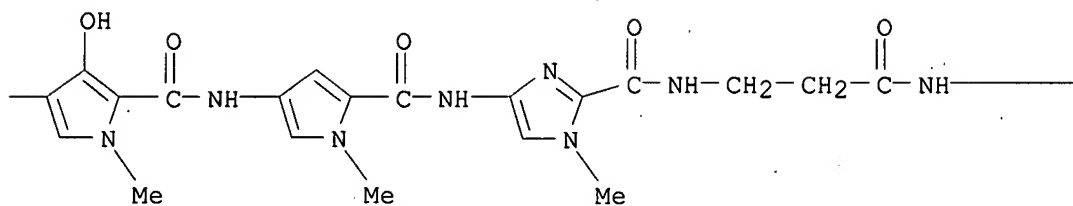
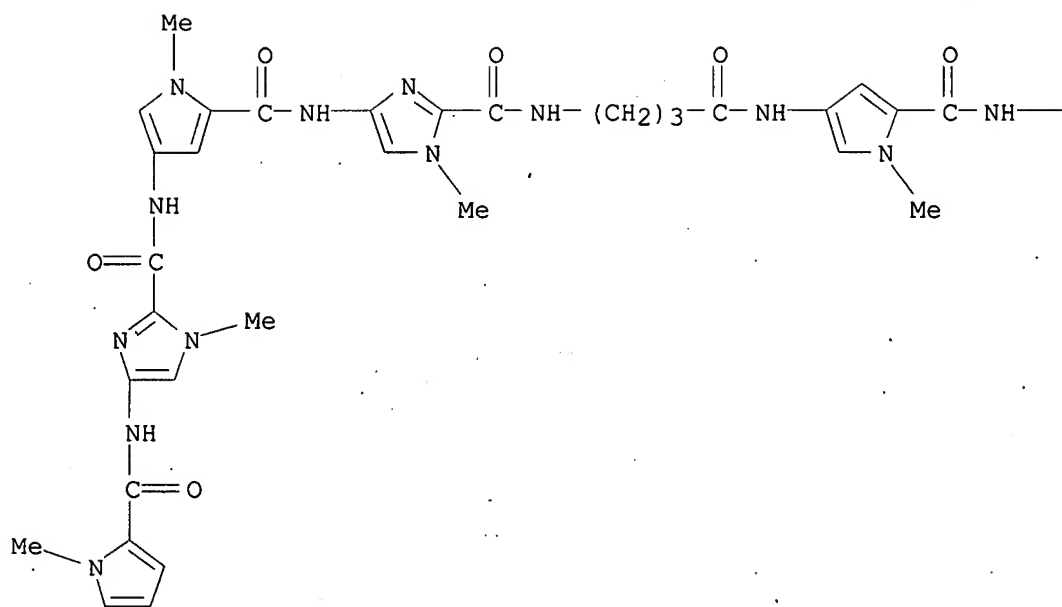
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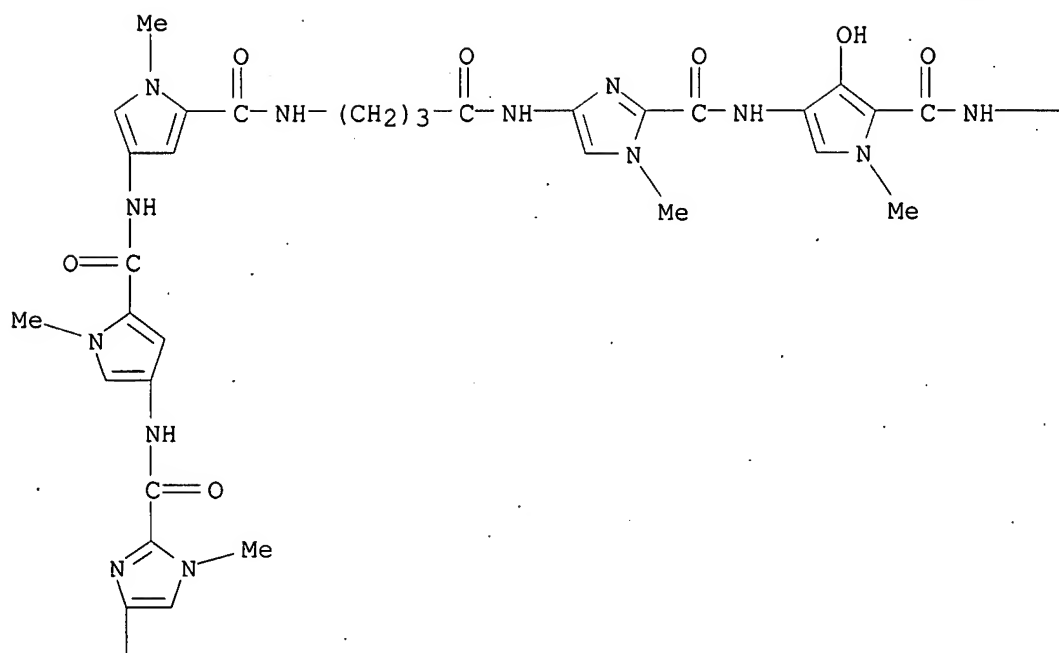
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$$-(\text{CH}_2)_3-\text{NMe}_2$$

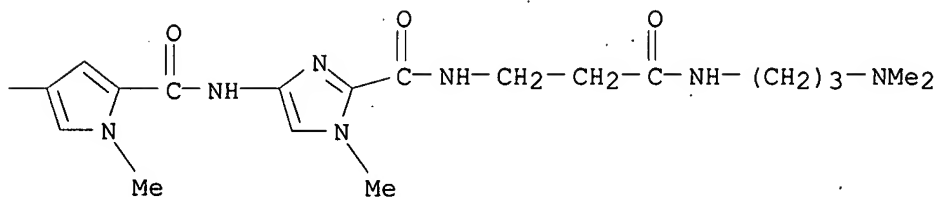
RN 212184-01-5 CAPLUS

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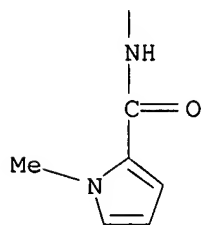
PAGE 1-A



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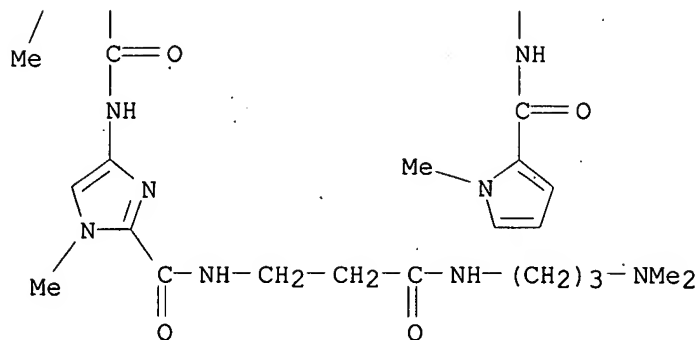
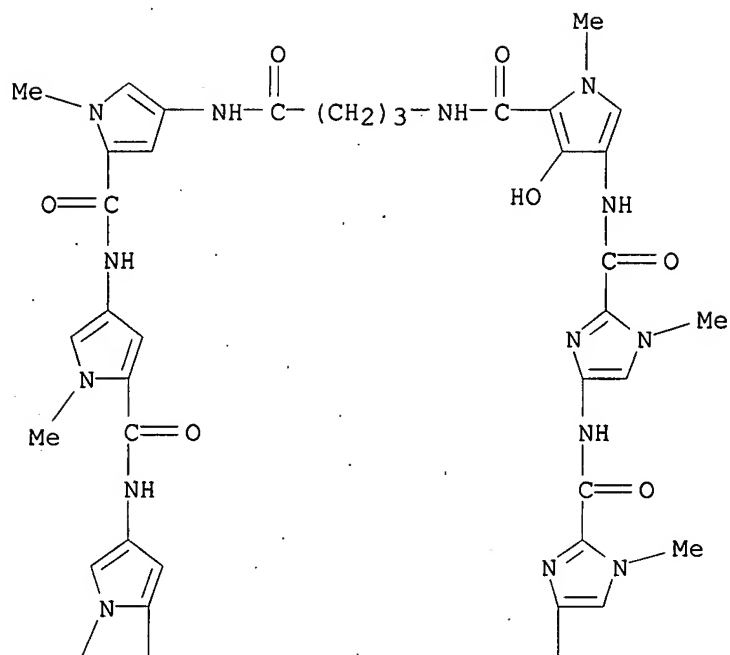
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RN 212184-02-6 CAPLUS

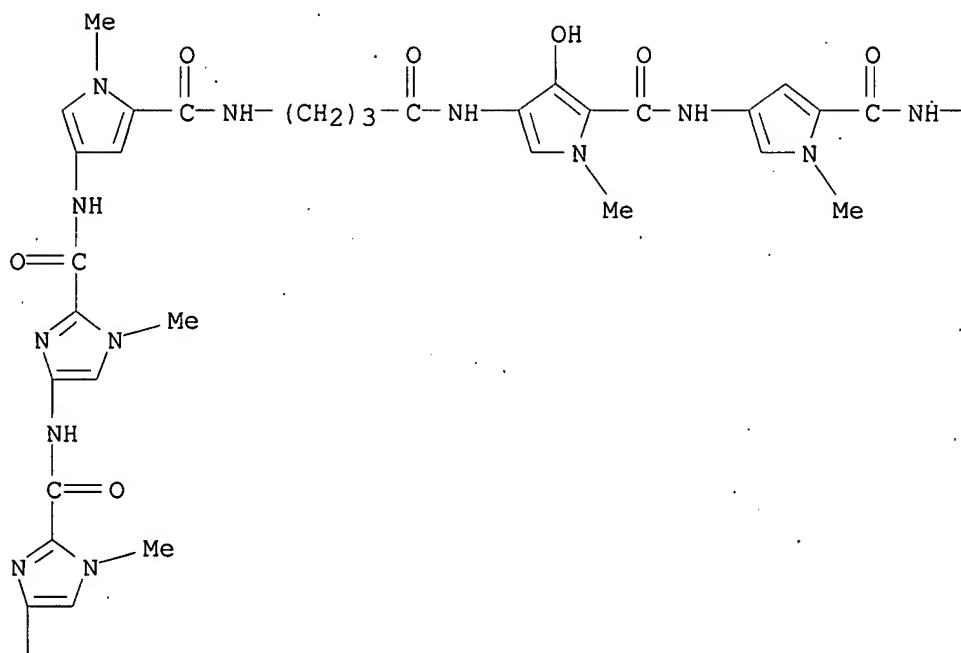
CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



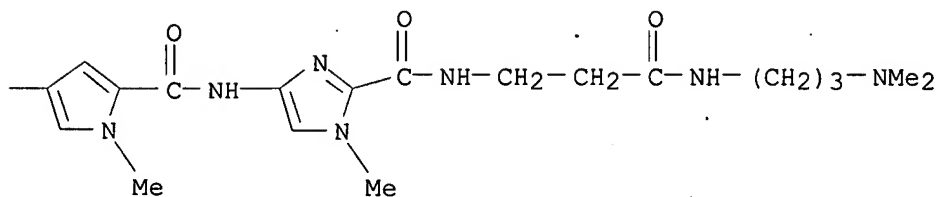


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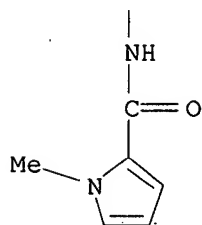
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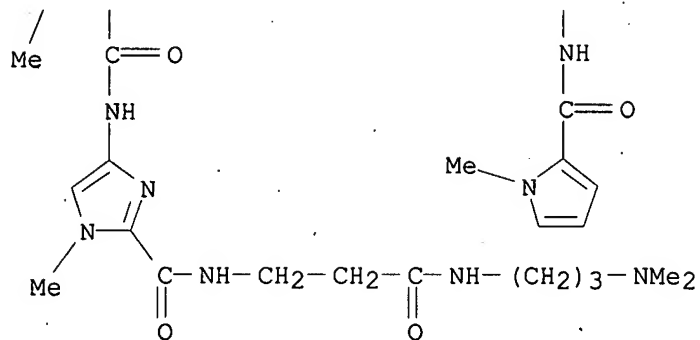
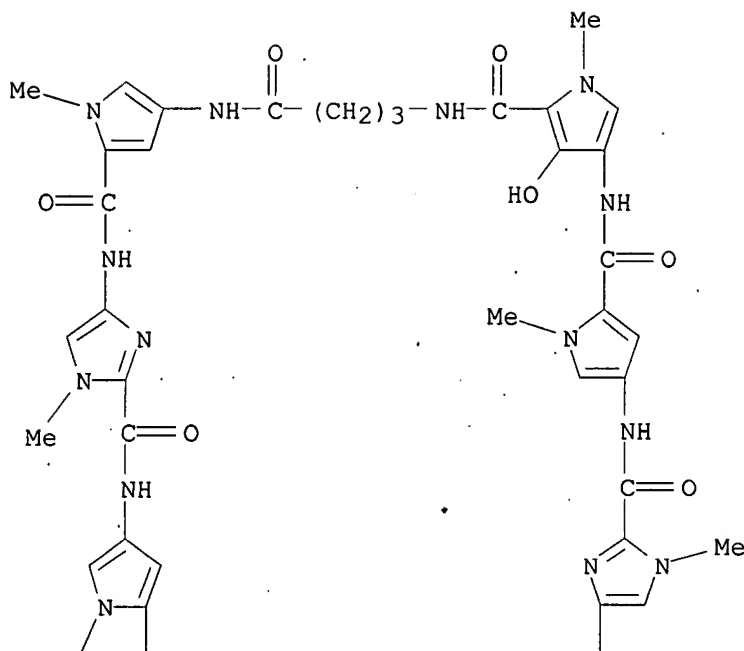
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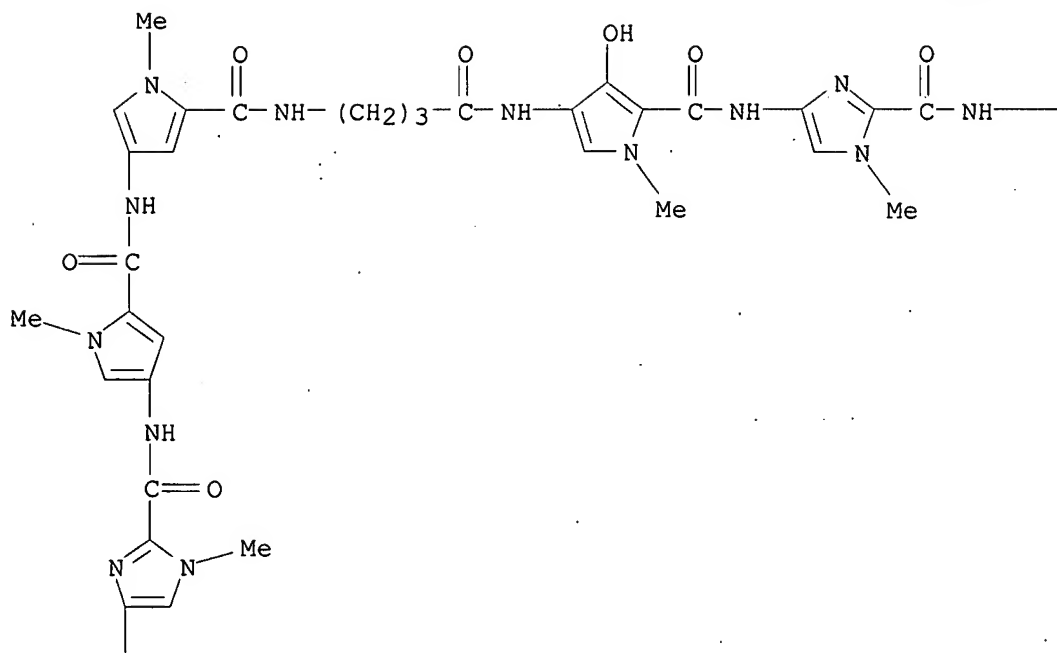


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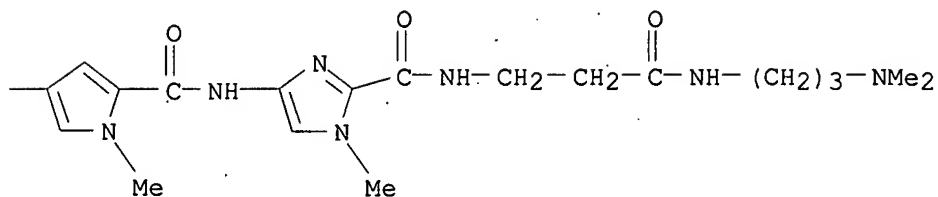


RN 212184-05-9 CAPLUS  
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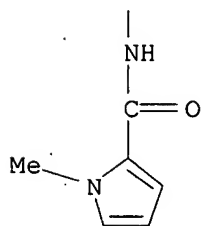
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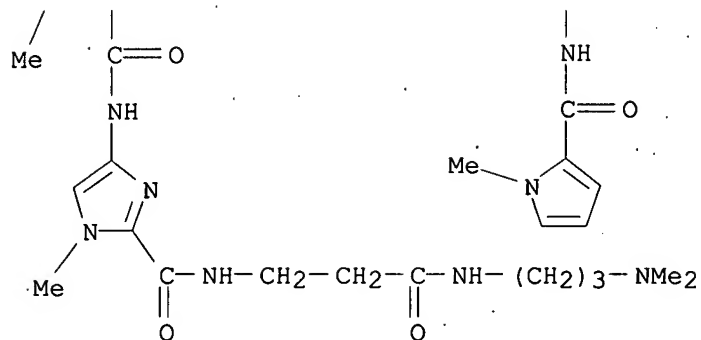
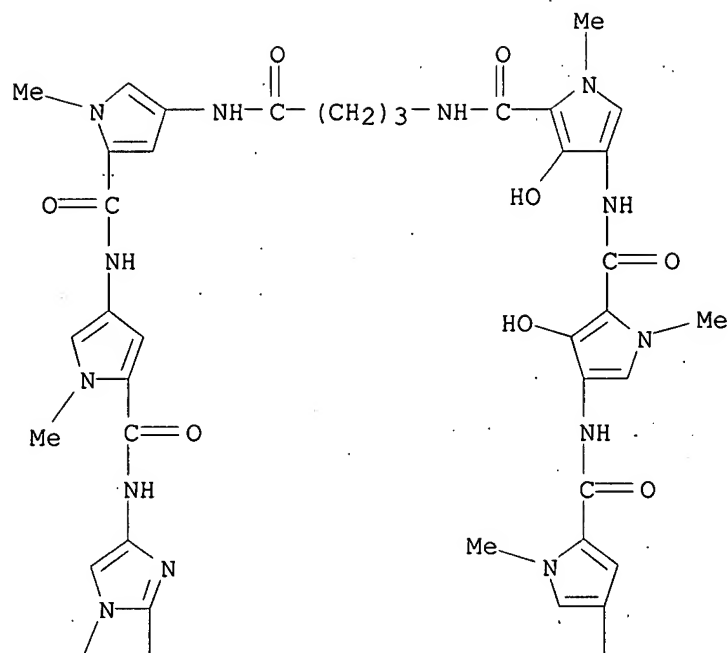


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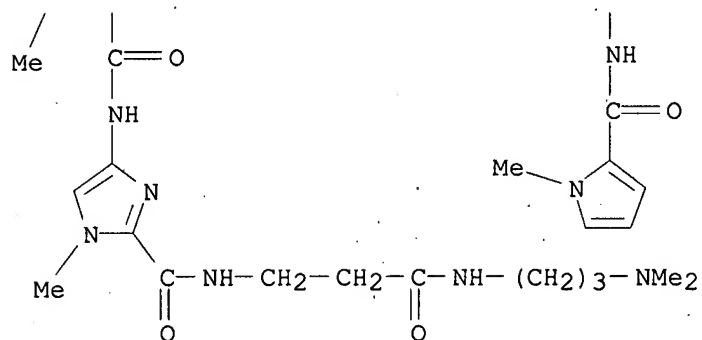
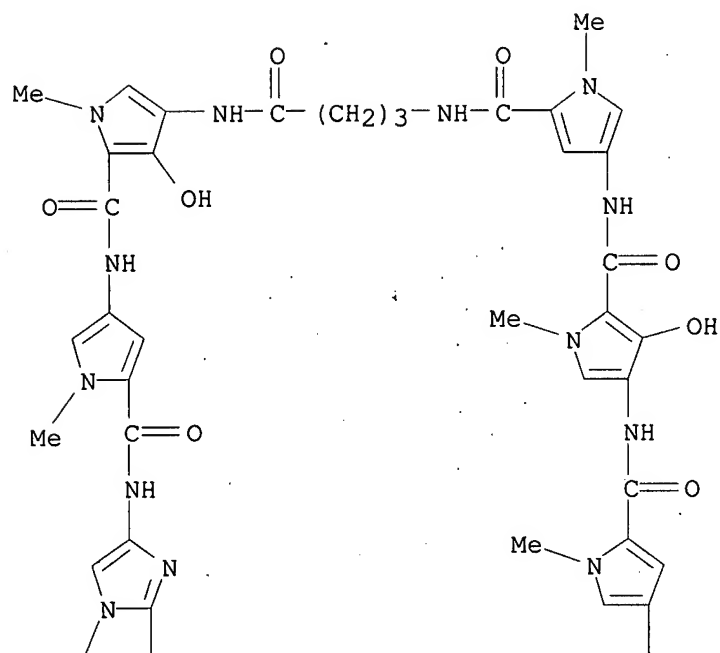


RN 212184-06-0 CAPLUS

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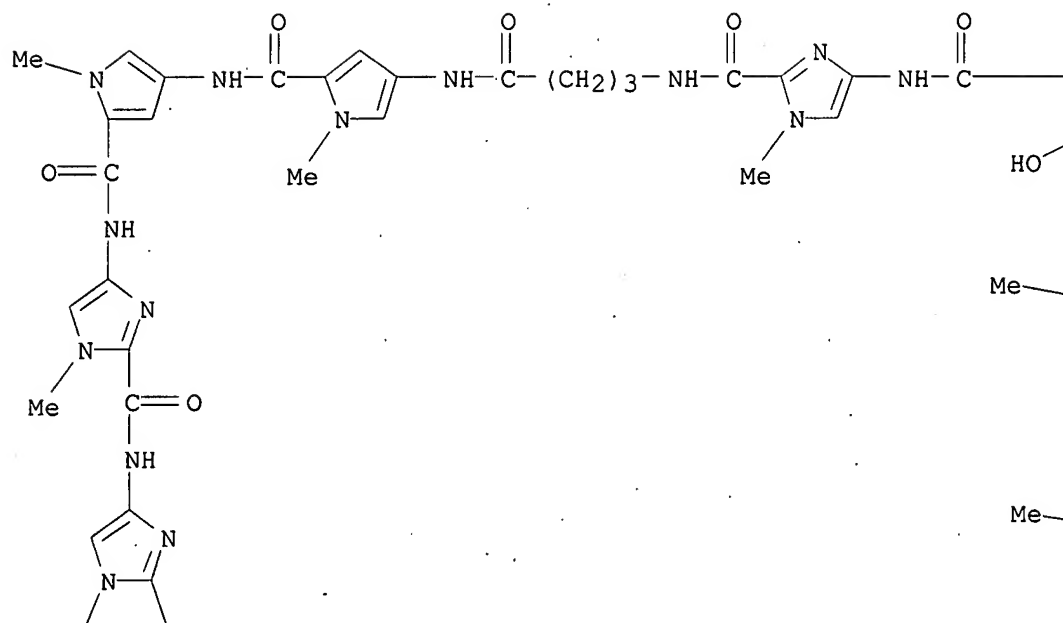
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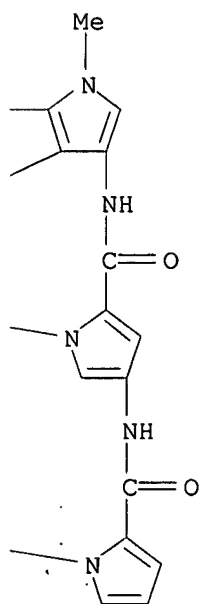
RN 212184-08-2 CAPLUS

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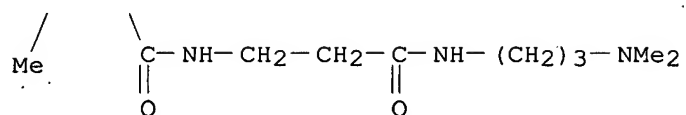
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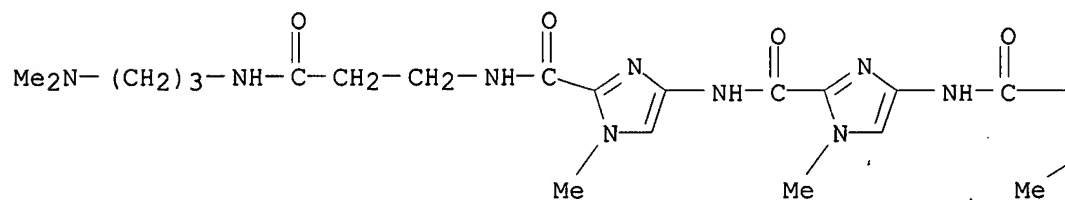


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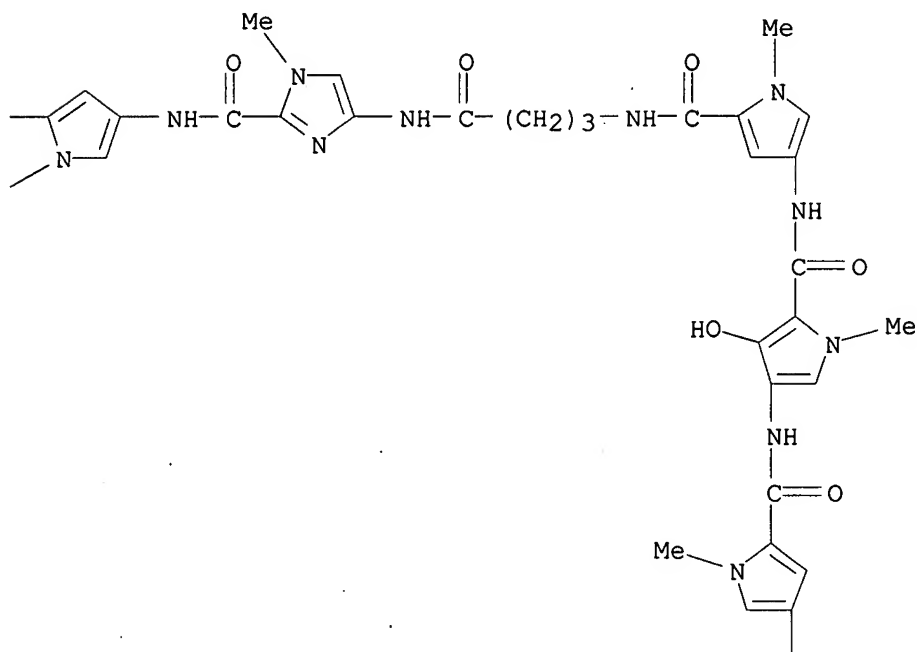


CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

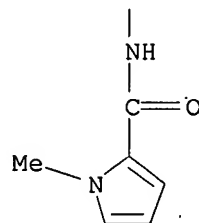
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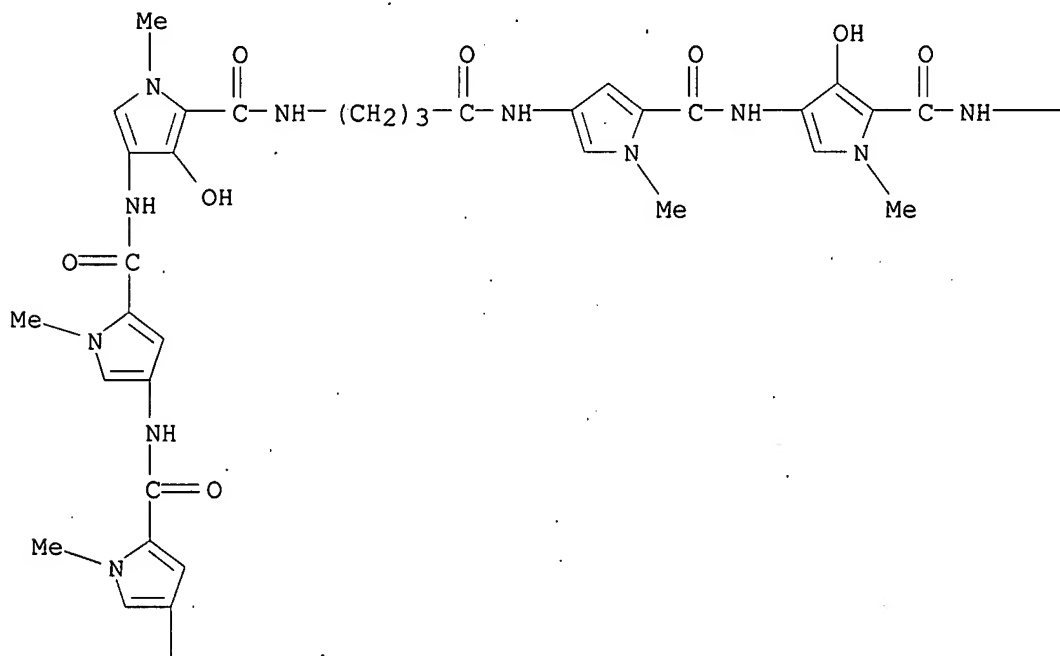
RN 212184-10-6 CAPLUS

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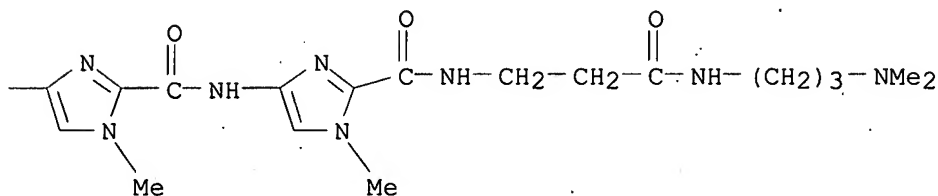


pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

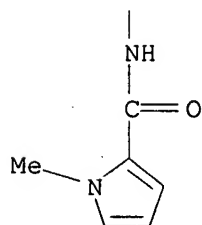
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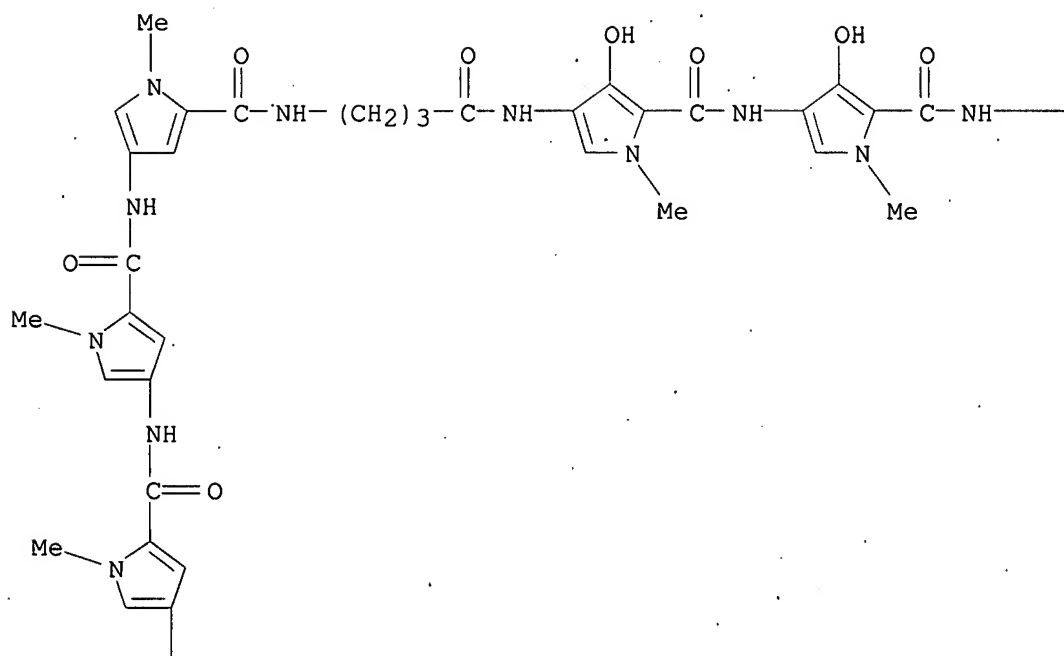


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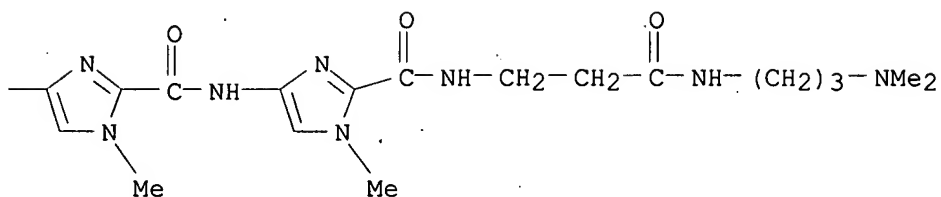


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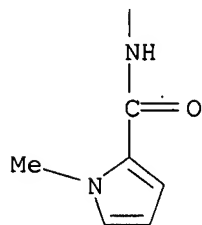
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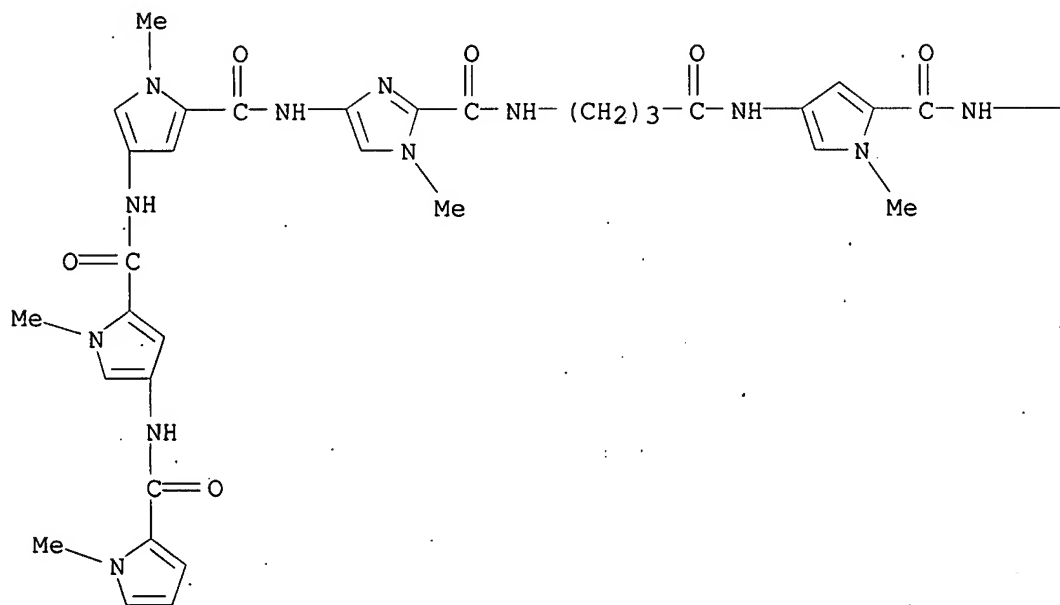


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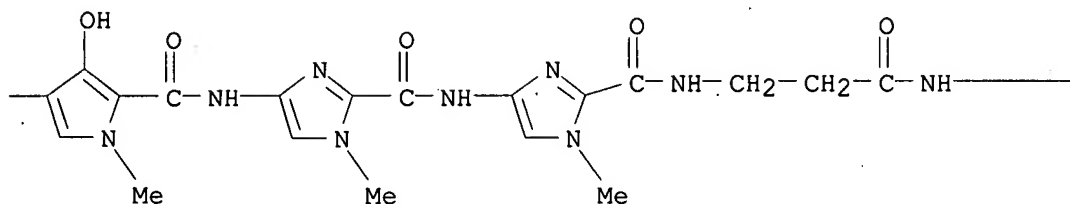


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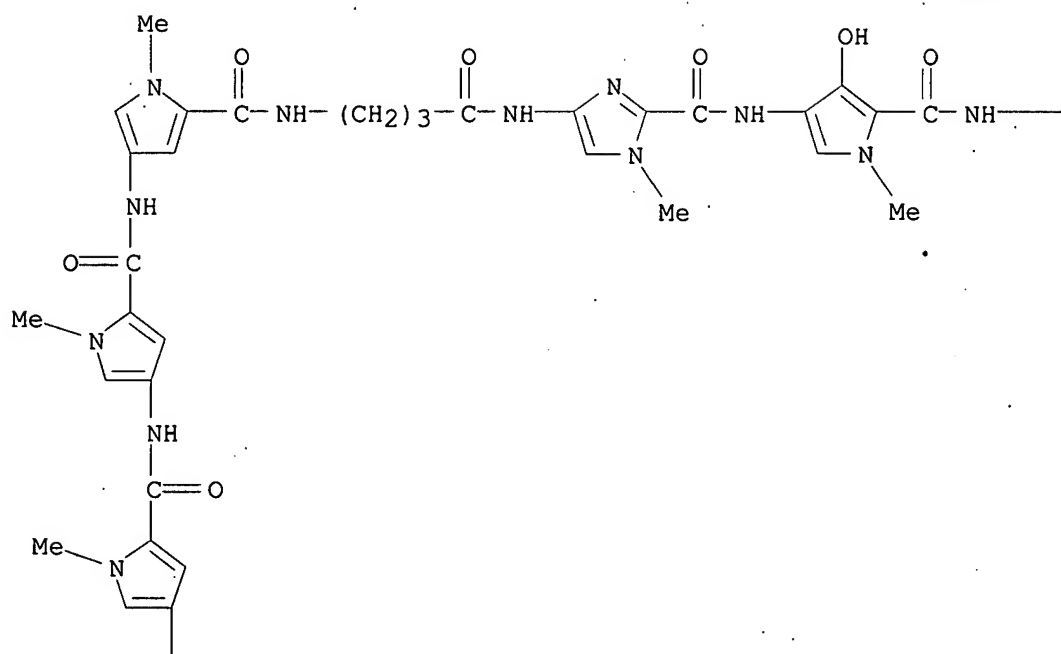


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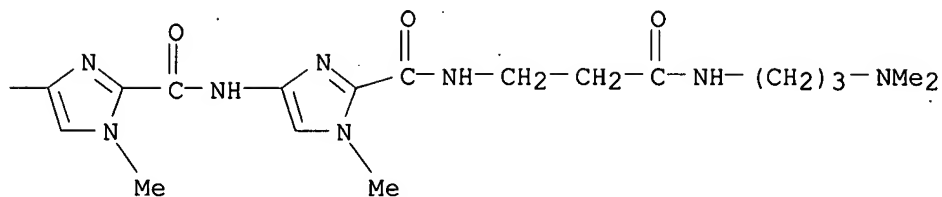
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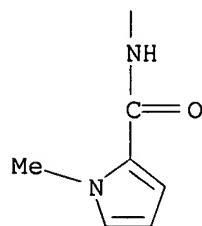
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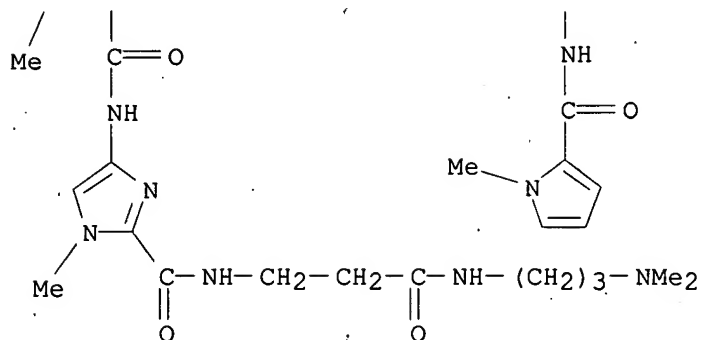
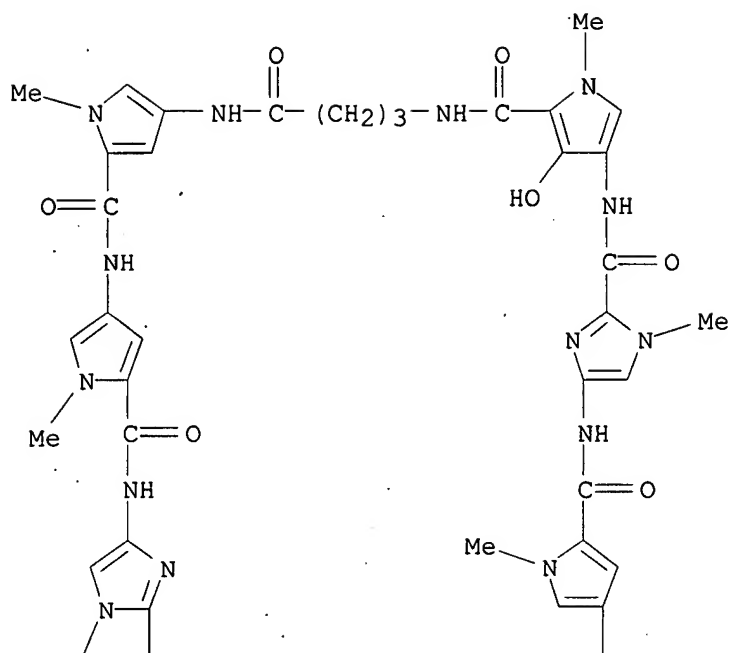


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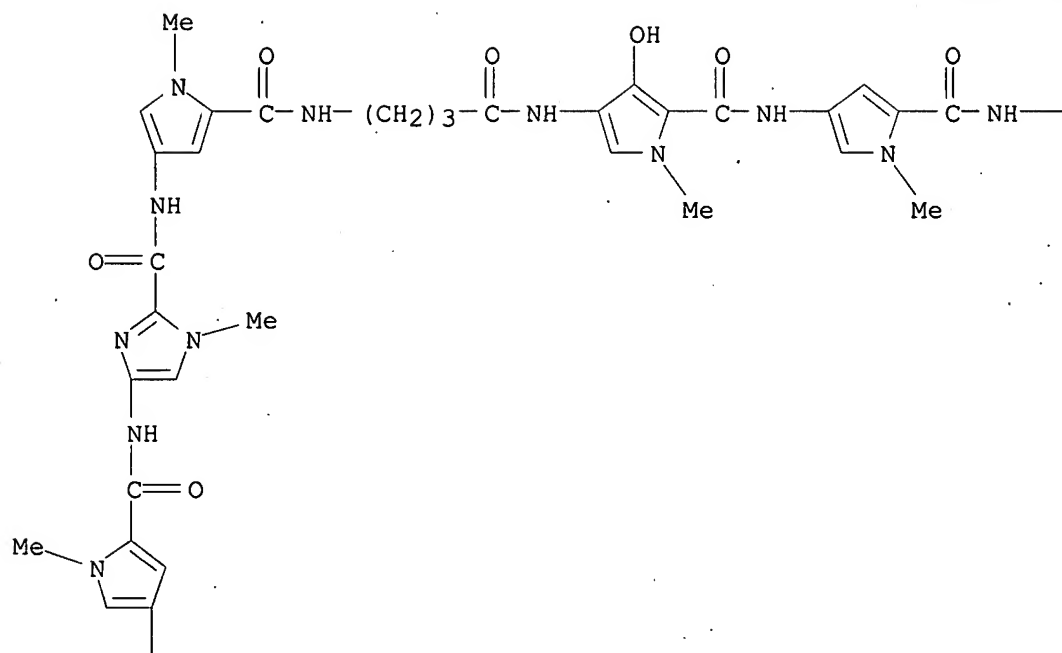
RN 212184-15-1 CAPLUS

CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

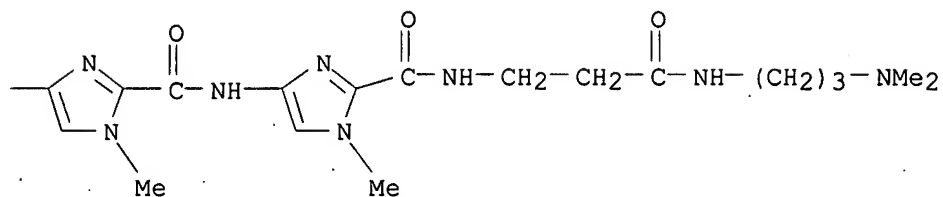


RN 212184-16-2 CAPLUS  
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 methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-  
 pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-  
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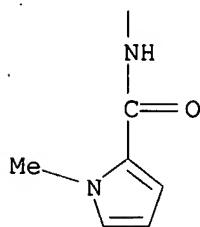
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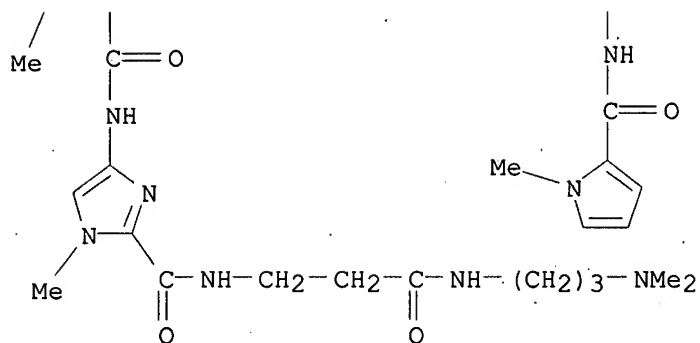
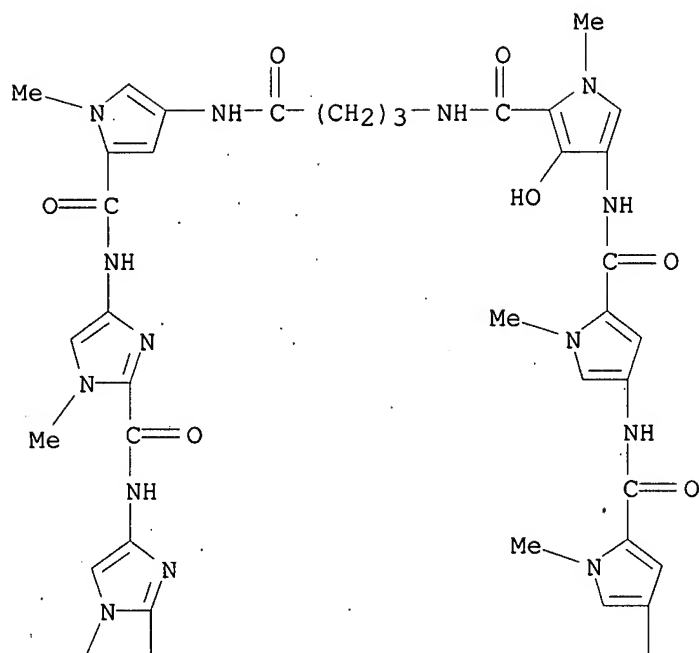
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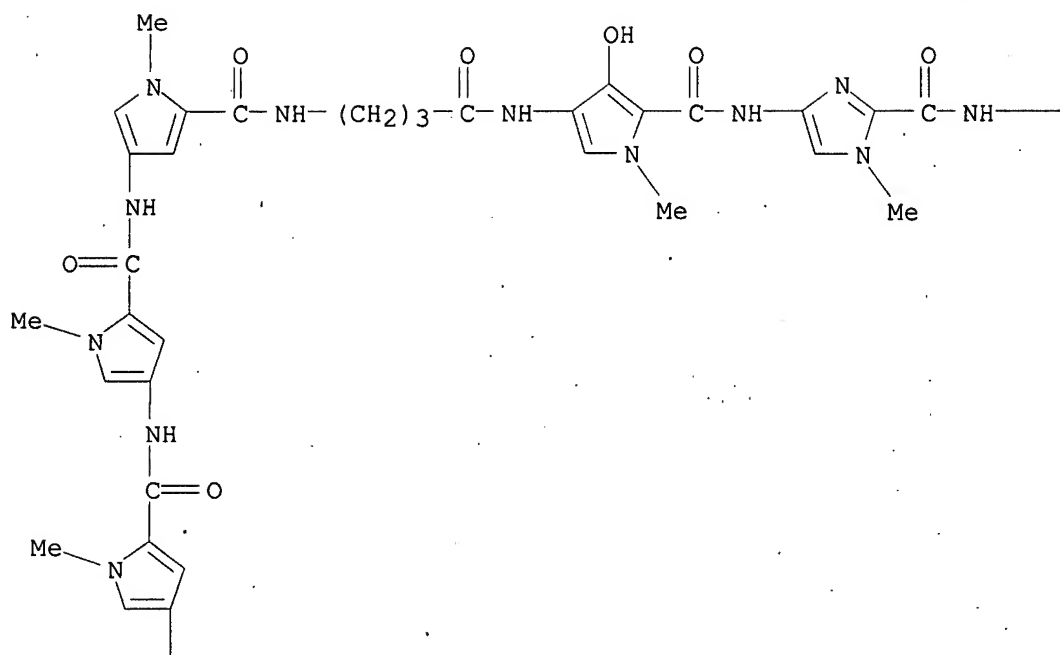


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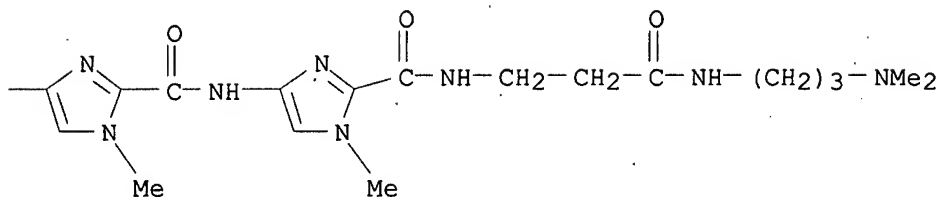


RN 212184-18-4 CAPLUS  
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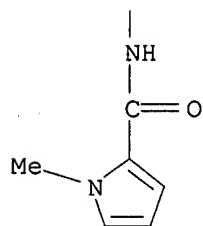
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IT 212184-23-1P 212184-33-3P 212184-36-6P  
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 212432-79-6P 212434-90-7P 473740-14-6P  
 473740-15-7P 473740-16-8P 473740-17-9P  
 473740-18-0P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation)  
 (polyamides binding to minor groove of double-stranded DNA and their  
 use in control of gene expression)

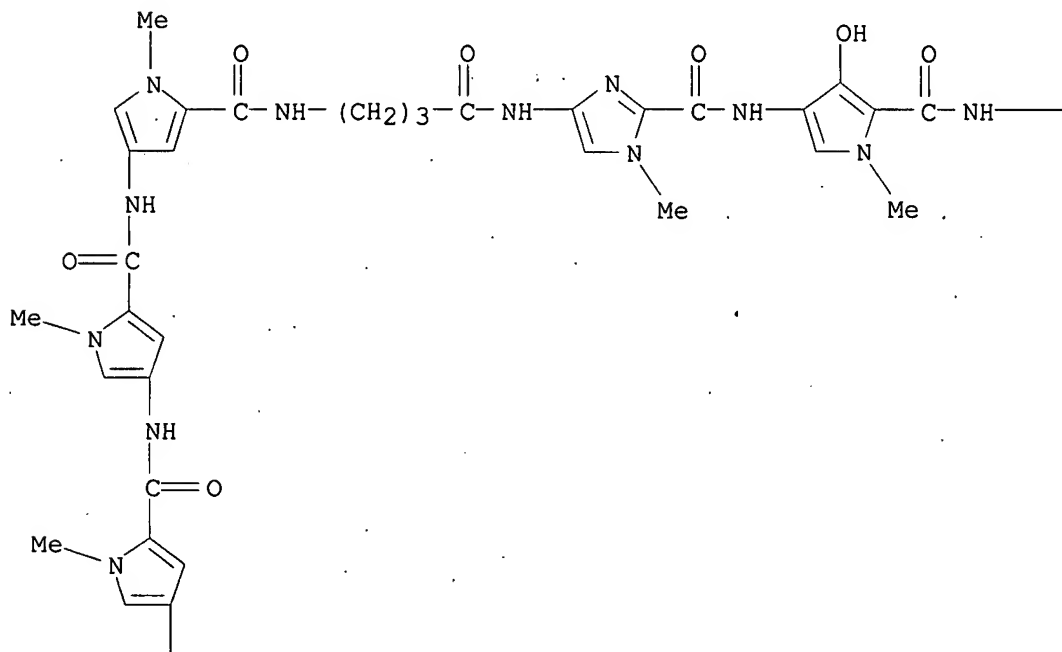
RN 212184-23-1 CAPLUS

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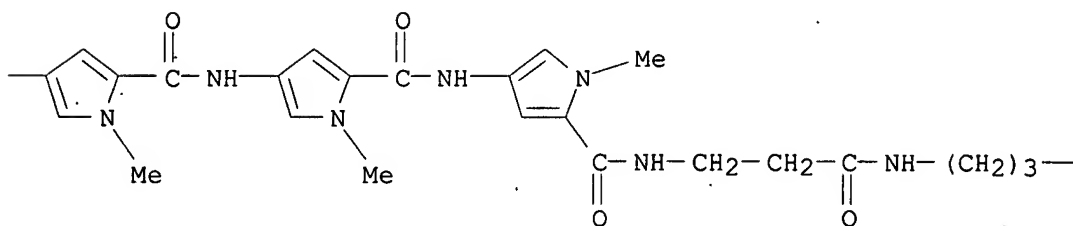


1H-imidazol-2-yl) carbonyl] amino] prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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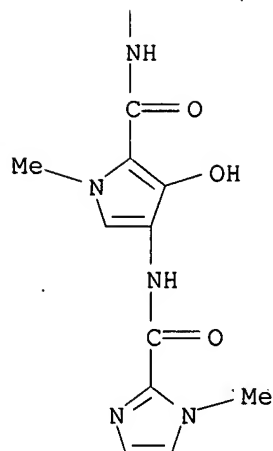


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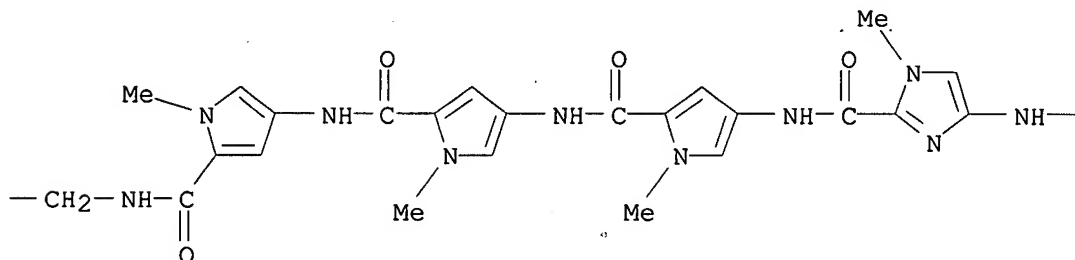
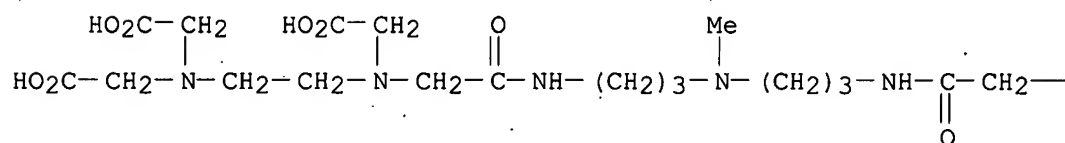
PAGE 1-C

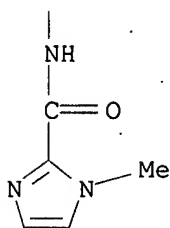
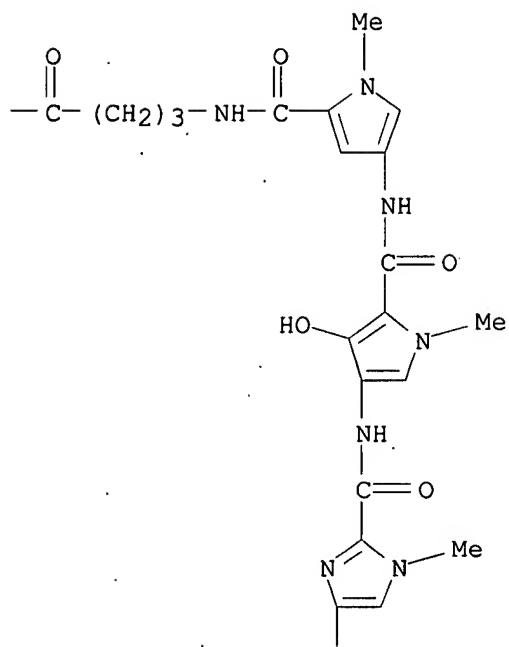
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RN 212184-33-3 CAPLUS

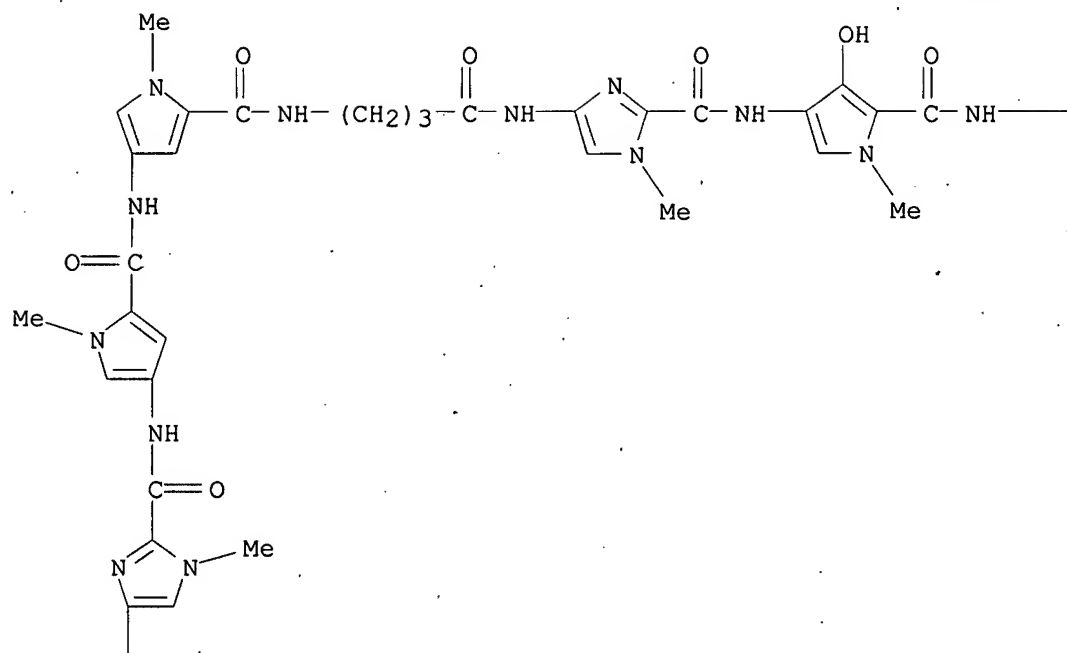
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[[3-[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]propyl]methylamino]propyl]- (9CI) (CA INDEX NAME)



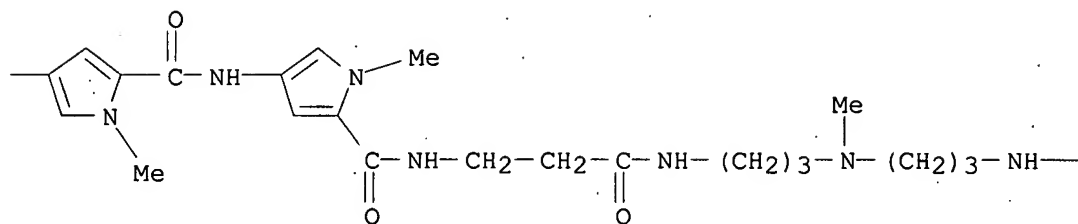


RN 212184-36-6 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[[3-[[[2-bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]propyl]methylamino]propyl]- (9CI) (CA INDEX NAME)

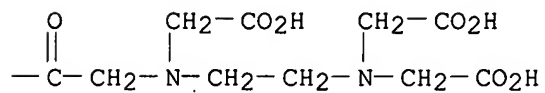
PAGE 1-A

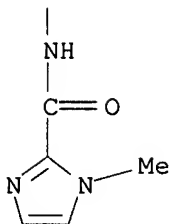


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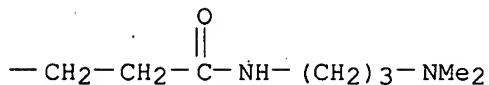
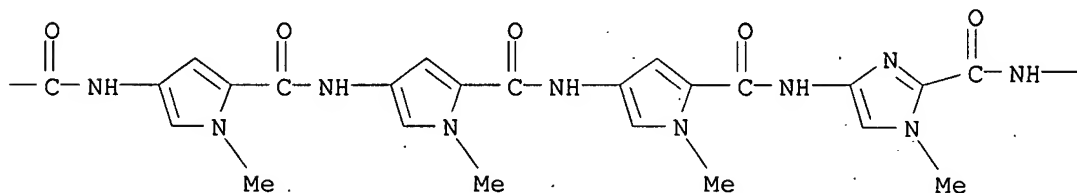
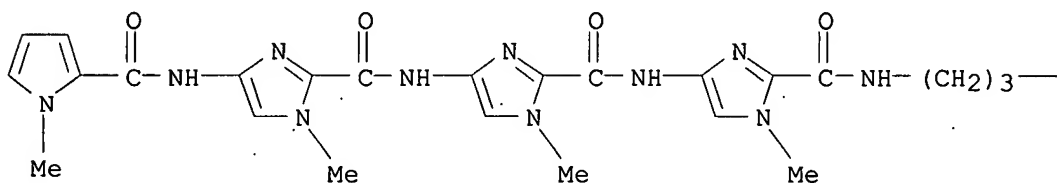


PAGE 1-C

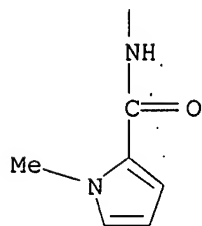
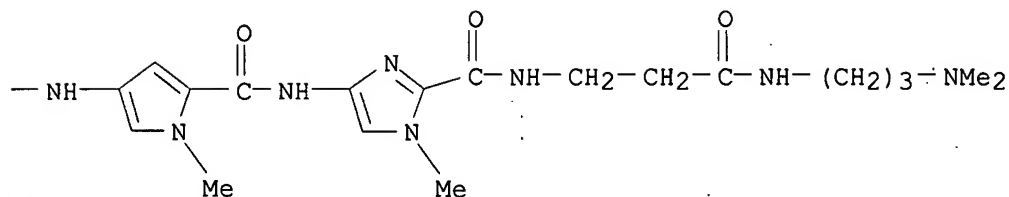
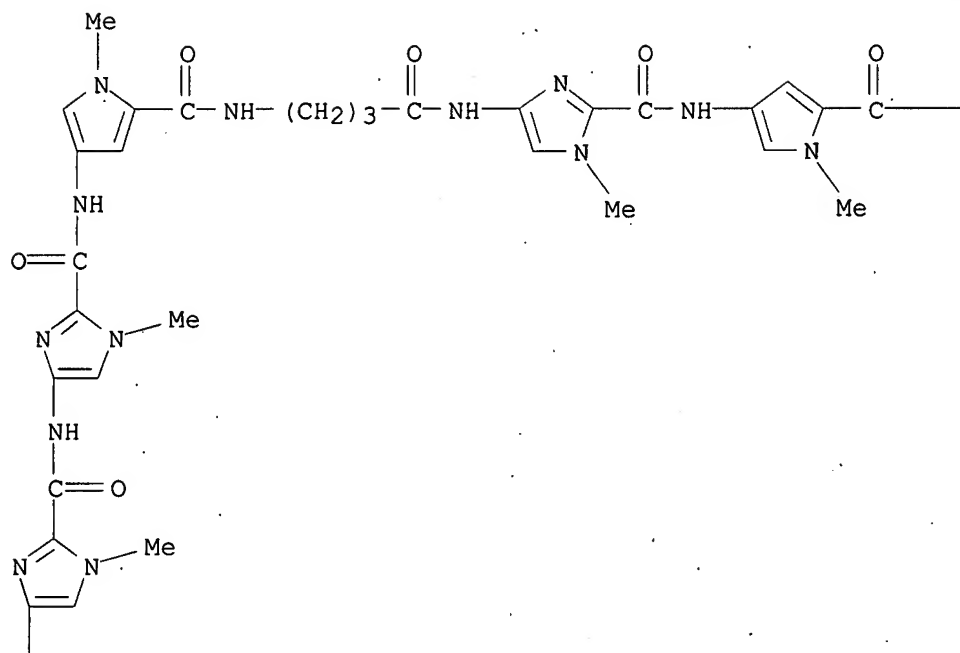




RN 212432-76-3 CAPLUS  
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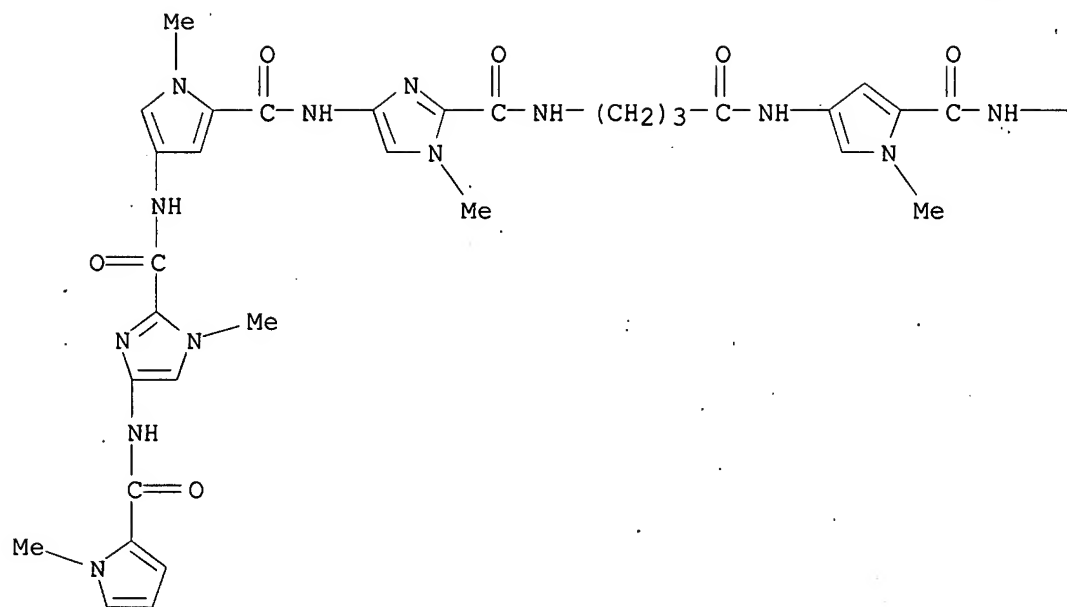


RN 212432-77-4 CAPLUS  
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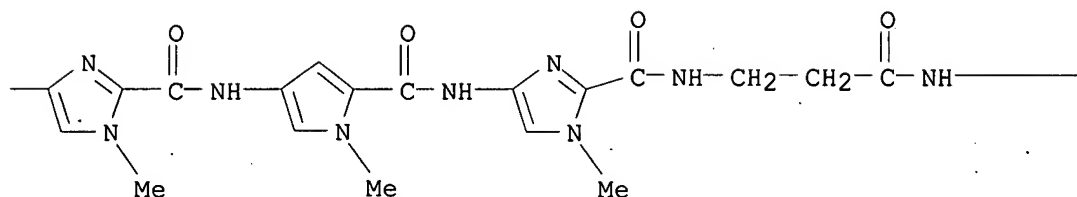


RN	212432-78-5	CAPLUS
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— (CH<sub>2</sub>)<sub>3</sub>—NMe<sub>2</sub>

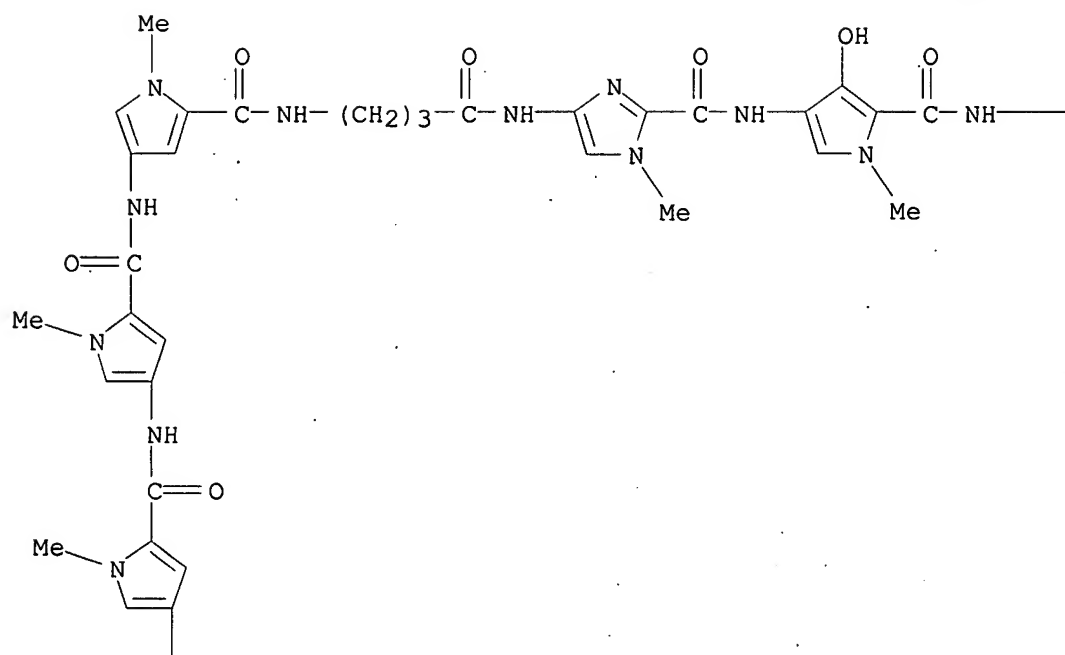
RN 212432-79-6 CAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

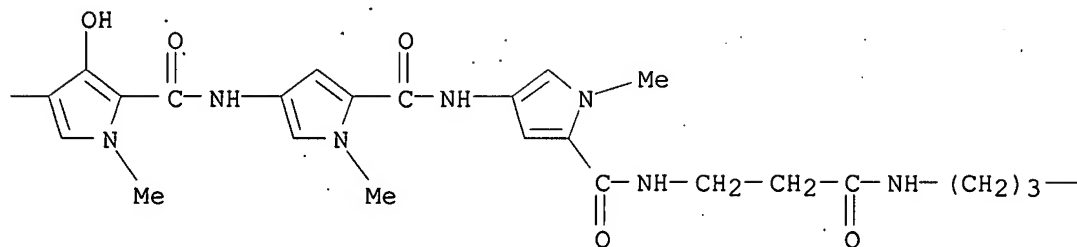
CN     $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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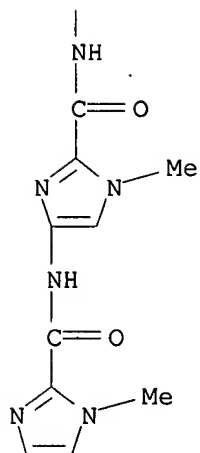


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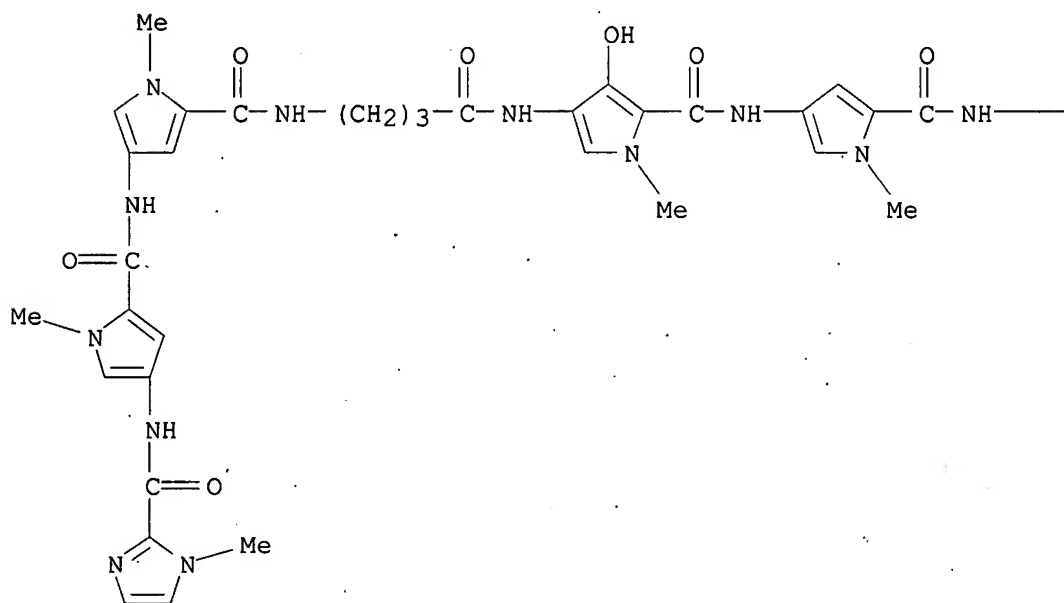


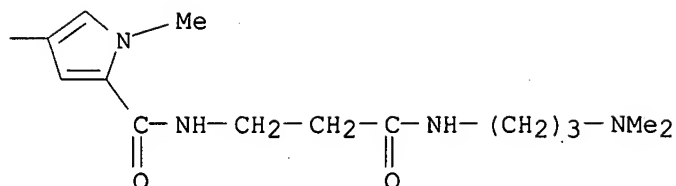
PAGE 1-C

—NMe<sub>2</sub>



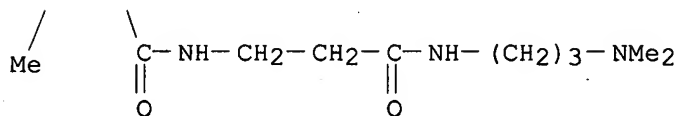
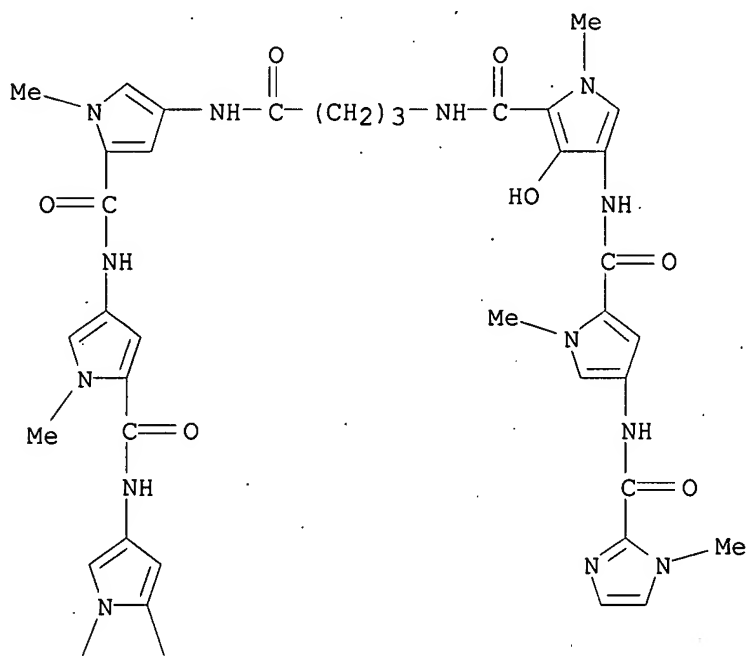
RN 473740-14-6 CAPLUS  
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 (CA INDEX NAME)





RN 473740-15-7 CAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[4-[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl- (9CI)  
(CA INDEX NAME)

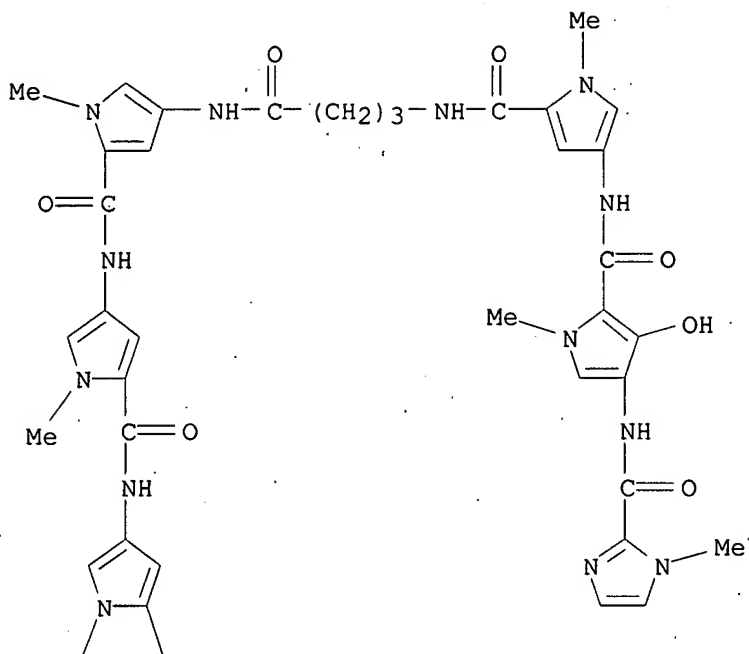


RN 473740-16-8 CAPLUS

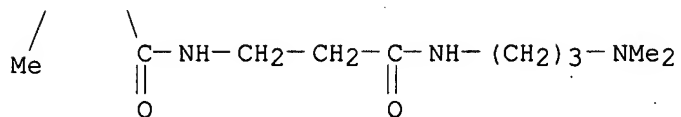
CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[4-[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-1H-imidazole-2-carboxamide

3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-1-methyl- (9CI)  
(CA INDEX NAME)

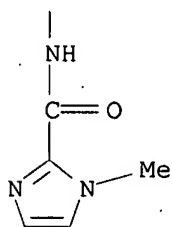
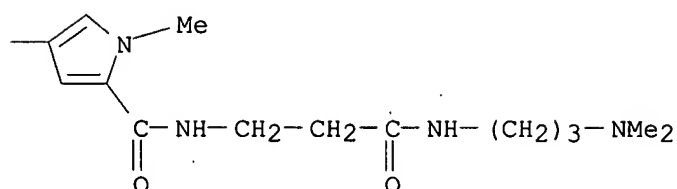
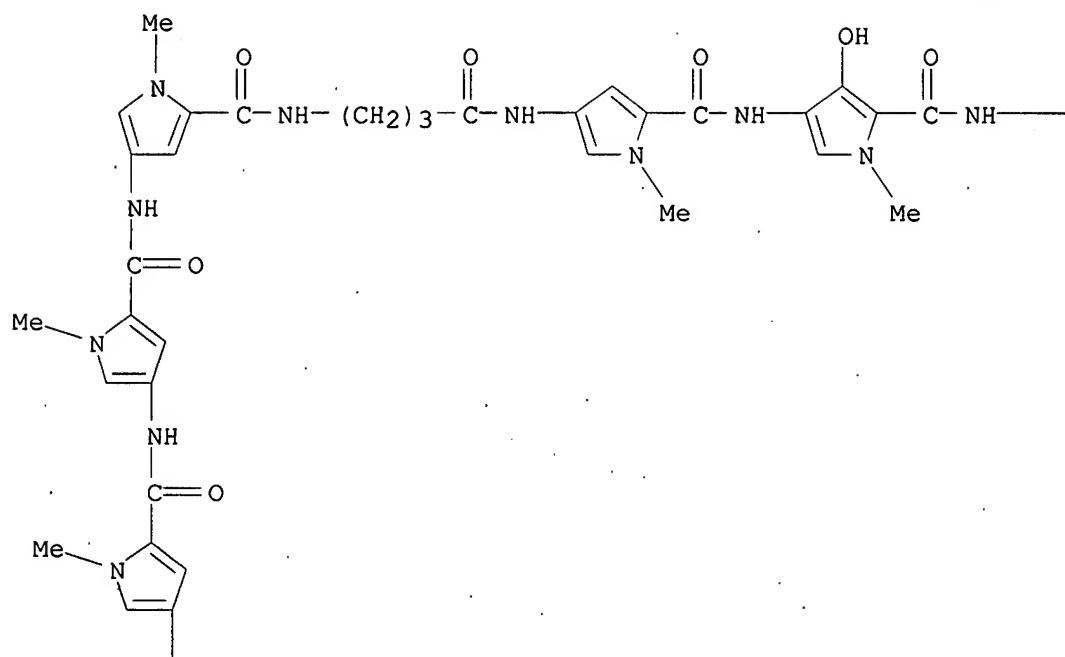
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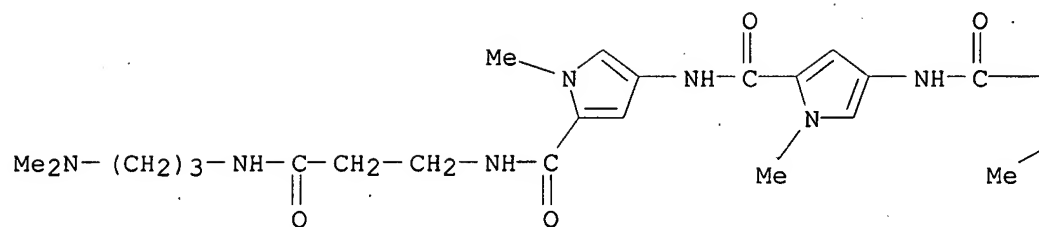


RN 473740-17-9 CAPLUS  
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(CA INDEX NAME)

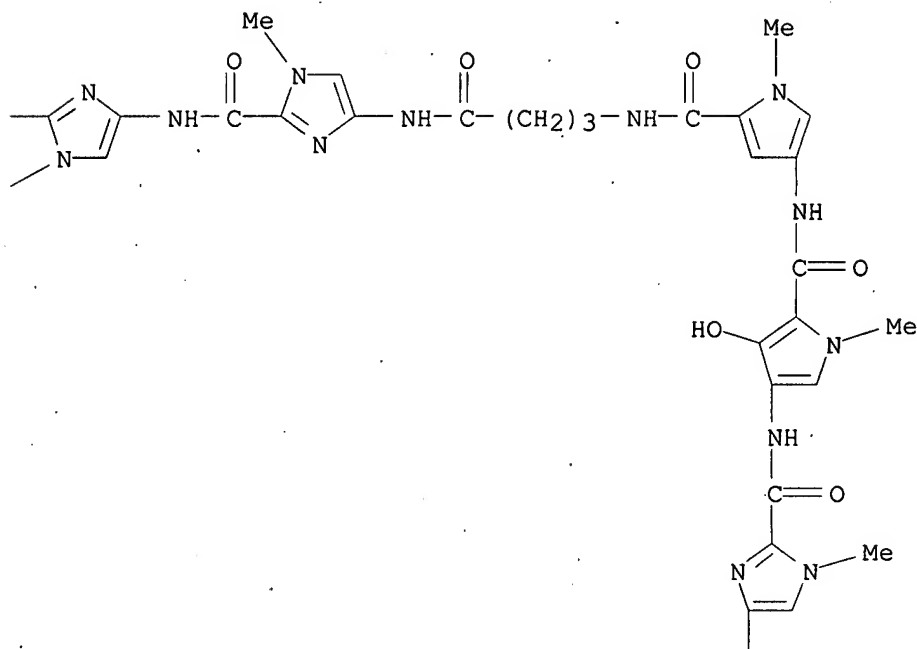


RN 473740-18-0 CAPLUS  
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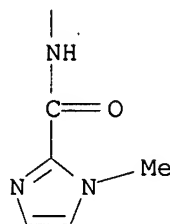
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IT 212184-28-6P 212184-29-7P 212184-30-0P  
212184-31-1P 212184-32-2P 212184-34-4P  
212184-35-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

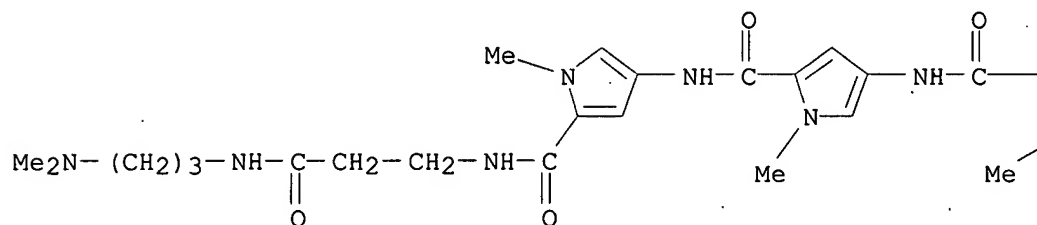
(polyamides binding to minor groove of double-stranded DNA and their use in control of gene expression)

RN 212184-28-6 CAPLUS

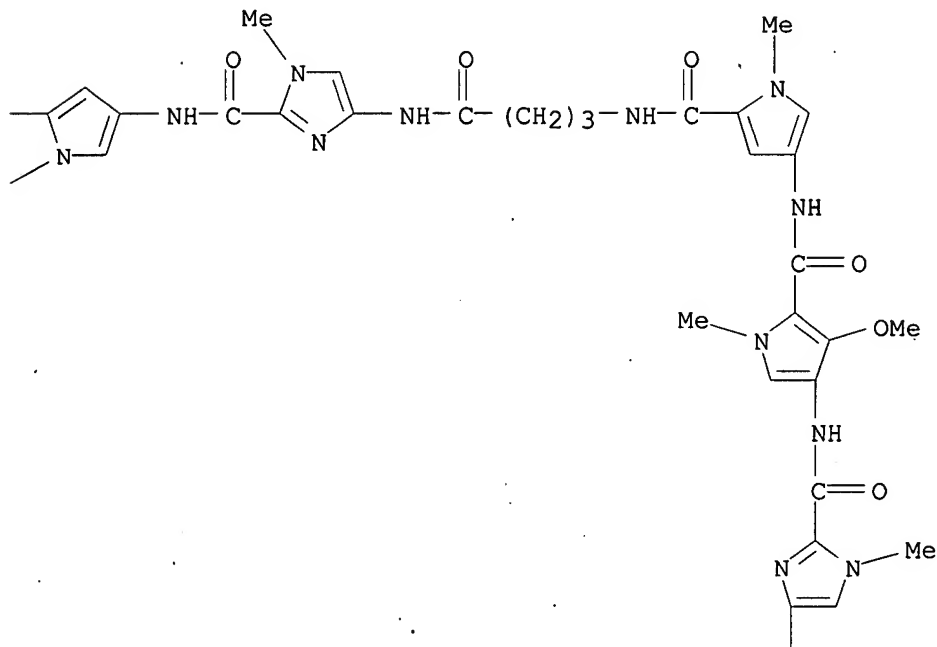
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradecahydro-3-methoxy-1-methyl-4-[[[1-methyl-

4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]-1H-imidazol-2-yl] carbonyl] amino] propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

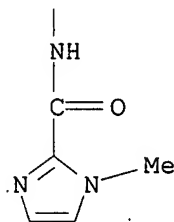
PAGE 1-A



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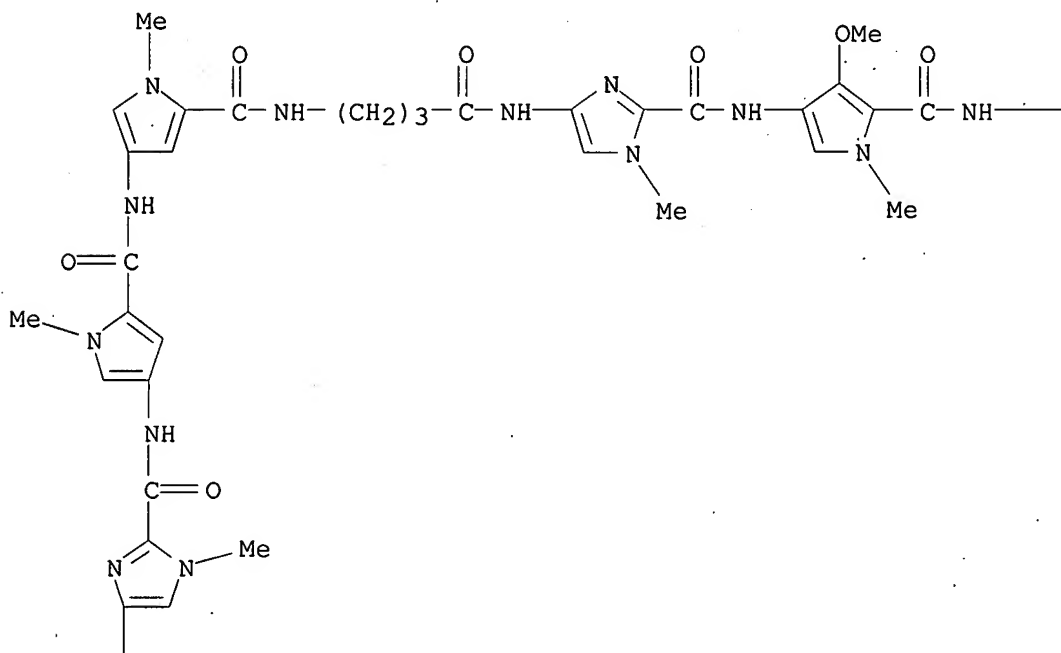
PAGE 2-B



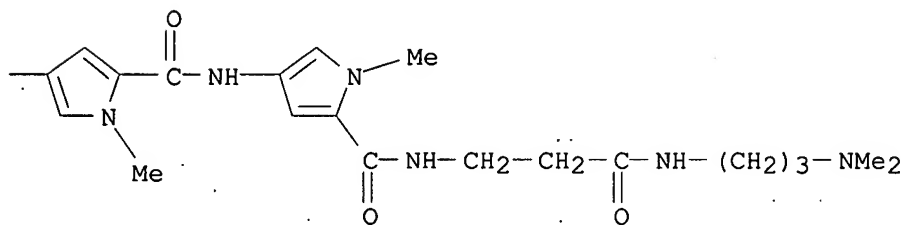
RN 212184-29-7 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[ (1-methyl-1H-imidazol-2-yl) carbonyl] amino]-1H-imidazol-2-

yl]carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-methoxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)  
(CA INDEX NAME)

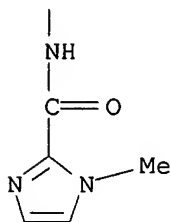
PAGE 1-A



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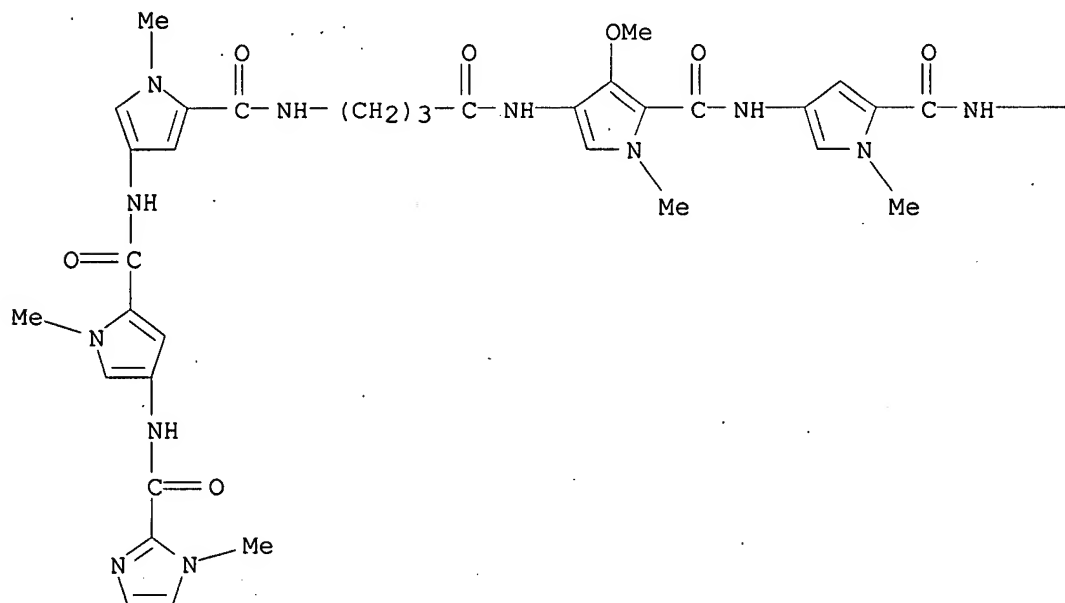


RN 212184-30-0 CAPLUS  
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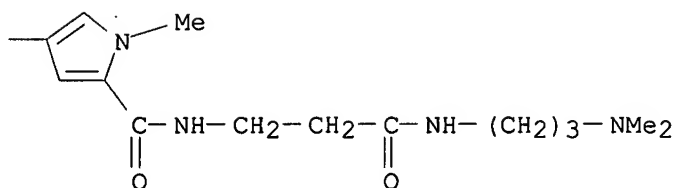


4-aminobutanoyl-4-amino-3-methoxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl] (9CI) (CA INDEX NAME)

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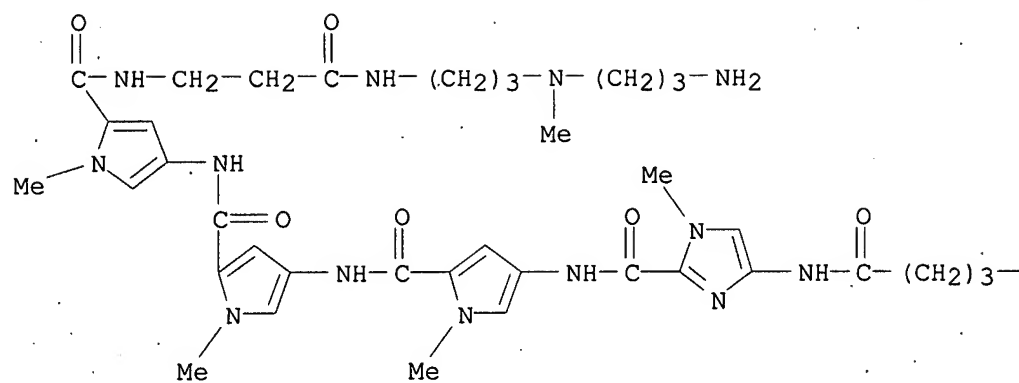


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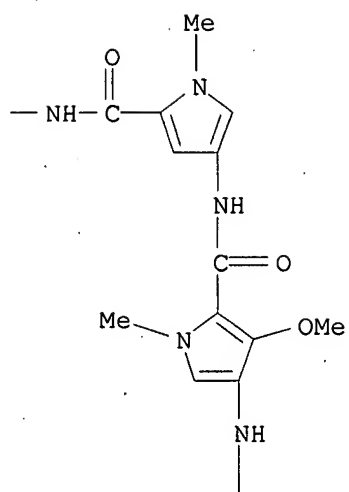


RN 212184-31-1 CAPLUS  
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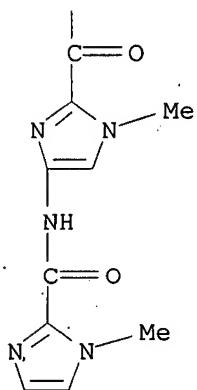
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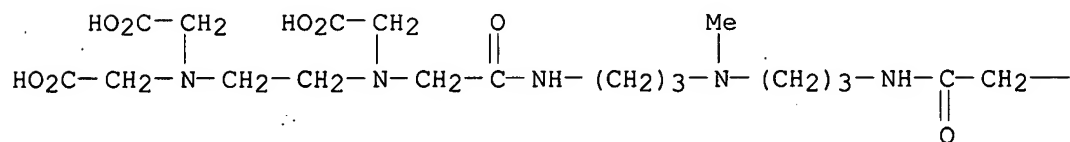
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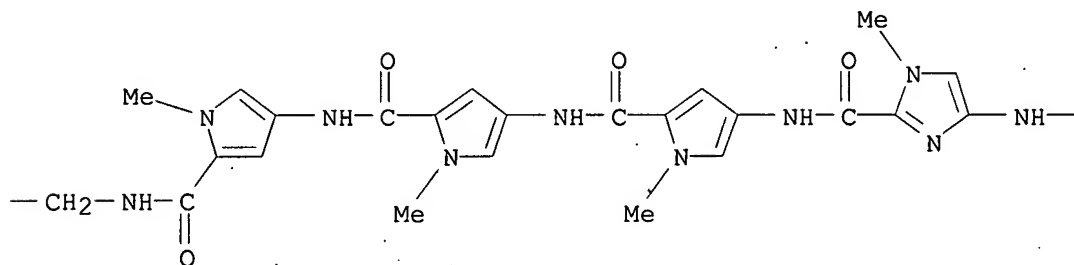
RN 212184-32-2 CAPLUS

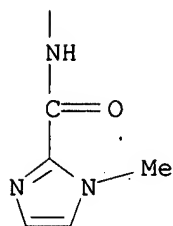
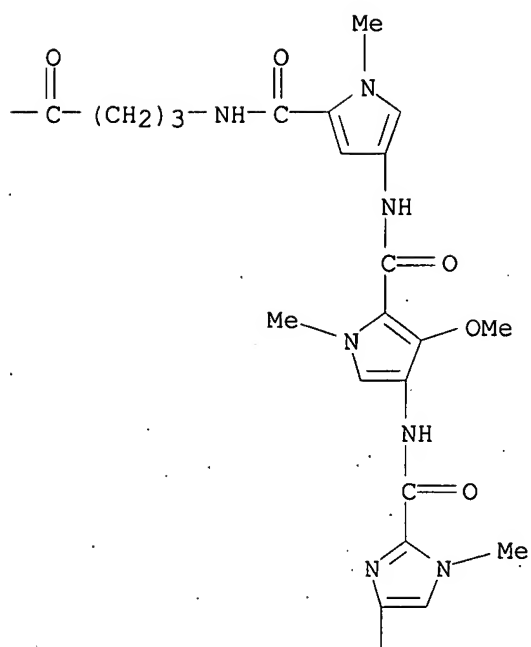
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-3-methoxy-1-methyl-4-[[[1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[[3-[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]propyl]methylamino]propyl]- (9CI) (CA INDEX NAME)

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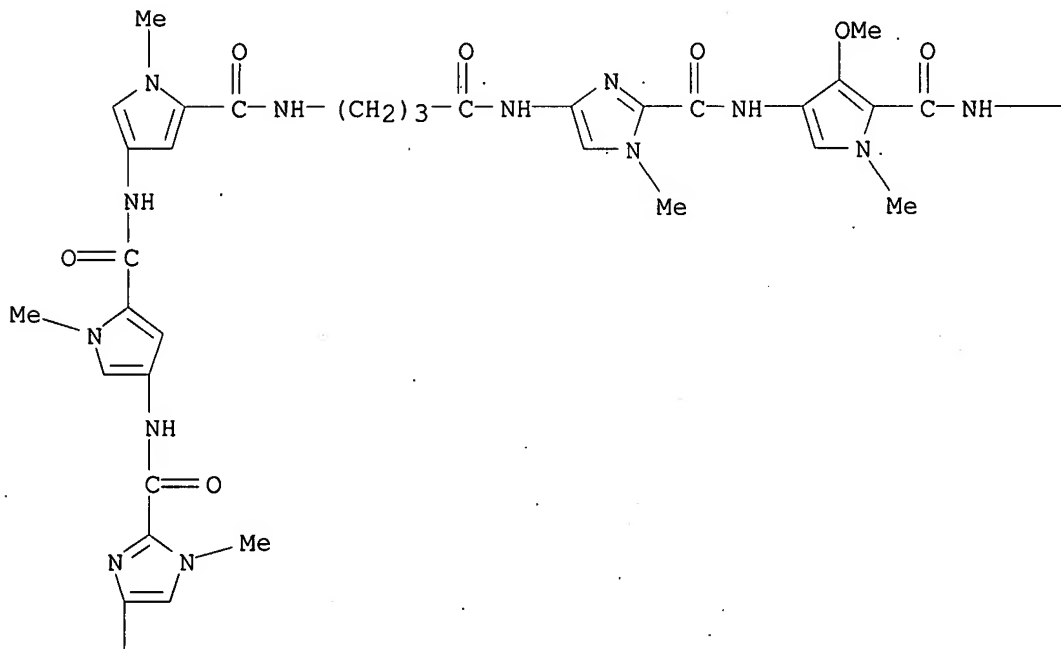
RN 212184-34-4 CAPLUS  
 CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]prolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-methoxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[[3-(dimethylamino)propyl]methylamino]propyl]- (9CI) (CA INDEX NAME)



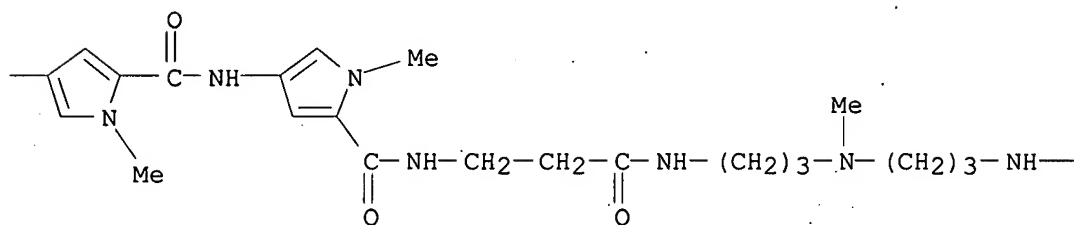
RN 212184-35-5 CAPLUS

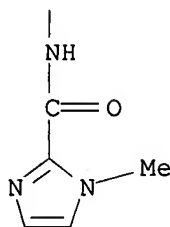
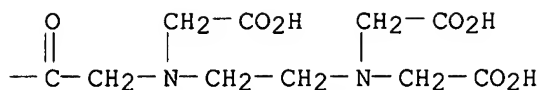
CN  $\beta$ -Alaninamide, 2,3,4,5-tetradehydro-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]propyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-methoxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-[[3-[[[2-bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]propyl)methylamino]propyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

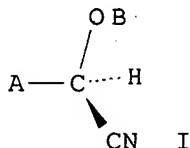




REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 14 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:816356 CAPLUS  
 DOCUMENT NUMBER: 137:279182  
 TITLE: preparation of chiral heteroaryl cyanohydrins  
 INVENTOR(S): Lin; Guoqiang; Chen, Peiran; Han, Shiqing; Li, Zuyi;  
 Huang, Hao  
 PATENT ASSIGNEE(S): Shanghai Inst. of Organic Chemistry, Academia Sinica,  
 Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

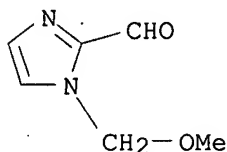
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1308074	A	20010815	CN 2001-105269	20010121 <--
PRIORITY APPLN. INFO.:			CN 2001-105269	20010121
OTHER SOURCE(S):	CASREACT 137:279182; MARPAT 137:279182			
GI				



AB Title compds. I (A = R<sup>2</sup>-furan-2-yl, R<sup>2</sup>- or R<sup>1</sup>-thienyl-, R-pyridyl, R<sup>4</sup>-1-methoxymethylpyrrol-2-yl, R-1-methoxymethylimidazol-2-yl, or 1,3-thiazol-2-yl; R = H, Me, or R<sup>2</sup>; R<sup>1</sup> = Me or R<sup>2</sup>; R<sup>2</sup> = hydroxymethyl, methoxymethyl, R<sup>3</sup>OCH<sub>2</sub>, X, nitro, or CN; X = halo; R<sup>3</sup> = acyl; R<sup>4</sup> = CN or X; B = H or acetyl) are prepared by addition reaction of ACHO with HCN (at a molar

ratio of 1:0.8-20) in 0-10% water-containing organic solvent in the presence of crude oxynitrilase (enzyme/ACHO of 1:0.001-200) at 0-45° for 0.01-120 h and/or acylating with acetic anhydride (at a molar ratio of 1:1-10) in organic solvent for 0.5-10 h. The crude oxynitrilase is isolated from armeniaca amara, semen persicae, semen of loquat, or seed of Vicia sativa.

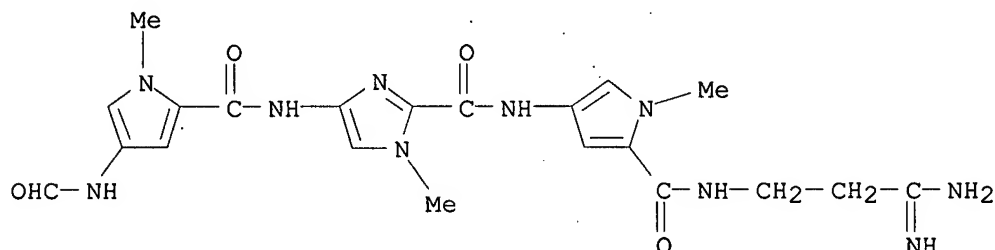
IT 154028-49-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of chiral heteroaryl cyanohydrins)  
 RN 154028-49-6 CAPLUS  
 CN 1H-Imidazole-2-carboxaldehyde, 1-(methoxymethyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 15 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:762881 CAPLUS  
 DOCUMENT NUMBER: 138:102402  
 TITLE: Free energy calculations on DNA: ligand complexes  
 AUTHOR(S): Singh, Suresh B.; Kollman, Peter A.  
 CORPORATE SOURCE: Merck Research Laboratories, Rahway, NJ, 07065, USA  
 SOURCE: Free Energy Calculations in Rational Drug Design (2001), 155-167. Editor(s): Reddy, M. Rami;  
 Erion, Mark D. Kluwer Academic/Plenum Publishers: New York, N. Y.  
 CODEN: 69DDTC; ISBN: 0-306-46676-7  
 DOCUMENT TYPE: Conference; General Review  
 LANGUAGE: English

AB A review describes the application of free energy perturbation on the evaluation of the binding strengths of ligands to oligomeric DNA. It presents three case studies related to minor groove binding ligands. The first case is on the calcn. of the absolute free energy of binding of netropsin to d(CGGAATTCGCG)2, the second case entails the calcn. of the change in free energy of binding of netropsin to d(IC)6·d(IC)6 relative to that of d(GC)6·d(GC)6; and lastly, is on the change in free energy of binding of distamycin relative to that of 2-imidazole-distamycin (2-ImD) to [d(CGCAATTGGC)]2.

IT 142211-88-9  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (free energy calcns. on DNA binding of ligand)  
 RN 142211-88-9 CAPLUS  
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-amino-3-iminopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[4-(formylamino)-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl- (9CI) (CA INDEX NAME)





REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 16 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:659952 CAPLUS

DOCUMENT NUMBER: 138:182830

TITLE: The importance of  $\beta$ -alanine for recognition of the minor groove of DNA

AUTHOR(S): Dervan, Peter B.; Urbach, Adam R.

CORPORATE SOURCE: Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 91125, USA

SOURCE: Essays in Contemporary Chemistry (2001), 327-339. Editor(s): Quinkert, Gerhard; Kisakuerek, M. Volkan. Verlag Helvetica Chimica Acta: Zurich, Switz. CODEN: 69DAGO; ISBN: 3-906390-28-4

DOCUMENT TYPE: Conference

LANGUAGE: English

AB Three polyamides were synthesized to study the role of  $\beta$ -alanine in targeting the minor groove of DNA. The three polyamides were ImPy-ImPy- $\beta$ -ImPyImPy- $\beta$ -Dp (1) and Im- $\beta$ -ImPy- $\beta$ -ImPy- $\beta$ -Dp, (2) which vary in their ImX-Im composition (X = Py or  $\beta$ ), and Im- $\beta$ -ImPy-PyIm- $\beta$ -ImPy- $\beta$ -Dp, where Im,  $\beta$ , Py stands for imidazole, pyrrole, and  $\beta$ -alanine. These polyamides bind two sites of similar size, but quite different sequence composition, which is related to the stoichiometry of the complexation in the minor groove. Polyamide 2, which contains two Im- $\beta$ -Im units, has the highest affinity for both sites, with the 1:1 complex being energetically favored over 2:1 stoichiometry.

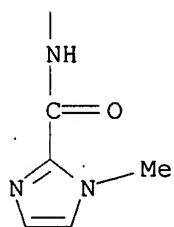
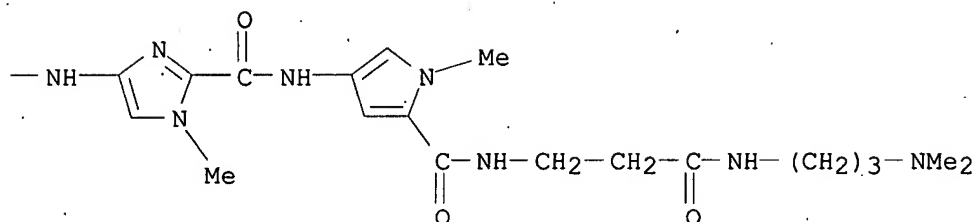
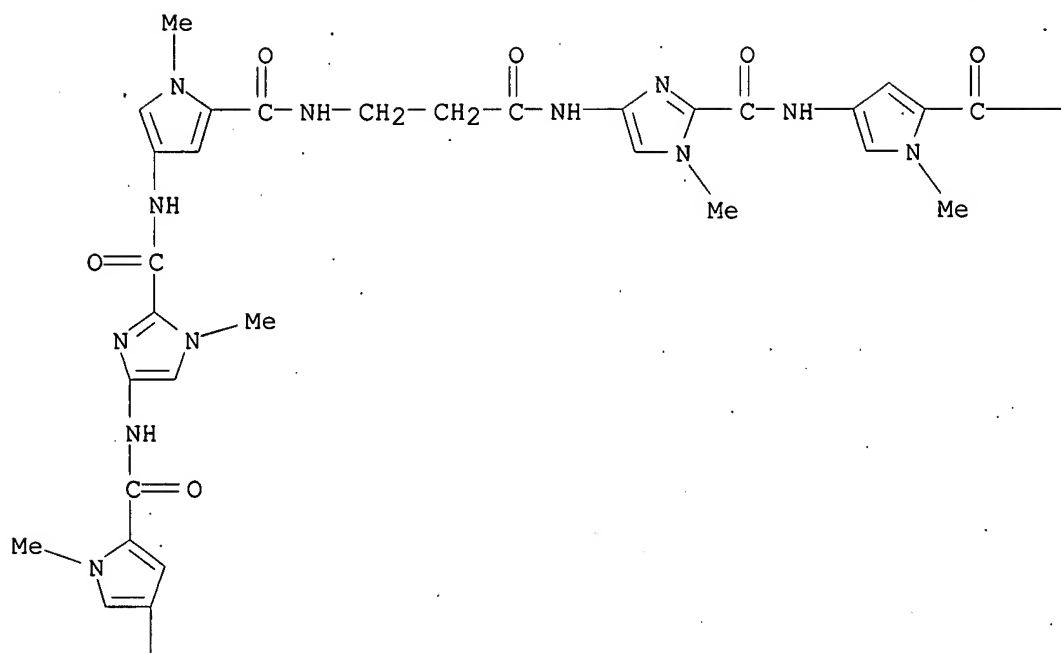
IT 499202-60-7P 499202-63-0P 499202-64-1P

RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(DNA minor groove binding to polyamides containing either imidazole, pyrrole or  $\beta$ -alanine in studies of minor groove recognition)

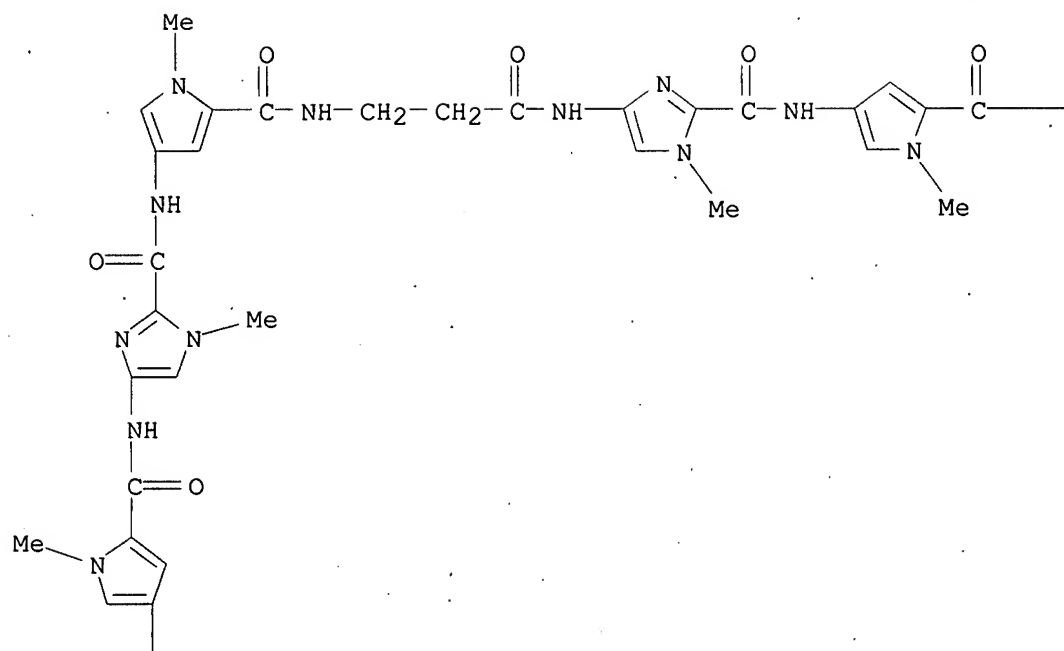
RN 499202-60-7 CAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-[[2-[[[5-[[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]- (9CI) (CA INDEX NAME)

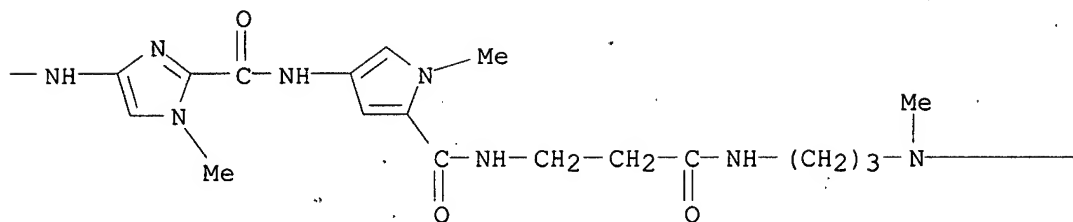


RN	499202-63-0 CAPLUS .
CN	2,6,10,14,17,20-Hexaaazadocosan-22-oic acid, 17,20-bis(carboxymethyl)-10-methyl-1-[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]-1,5,15-trioxo-(9CI) (CA INDEX NAME)

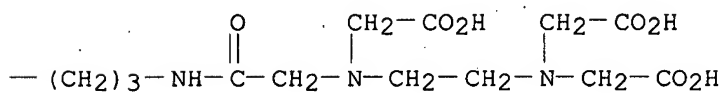
PAGE 1-A

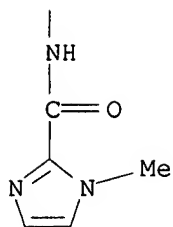


PAGE 1-B



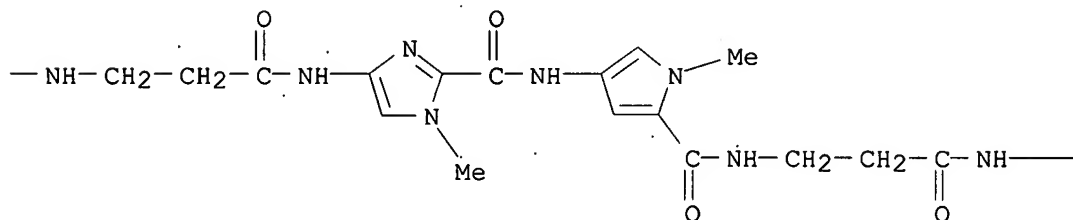
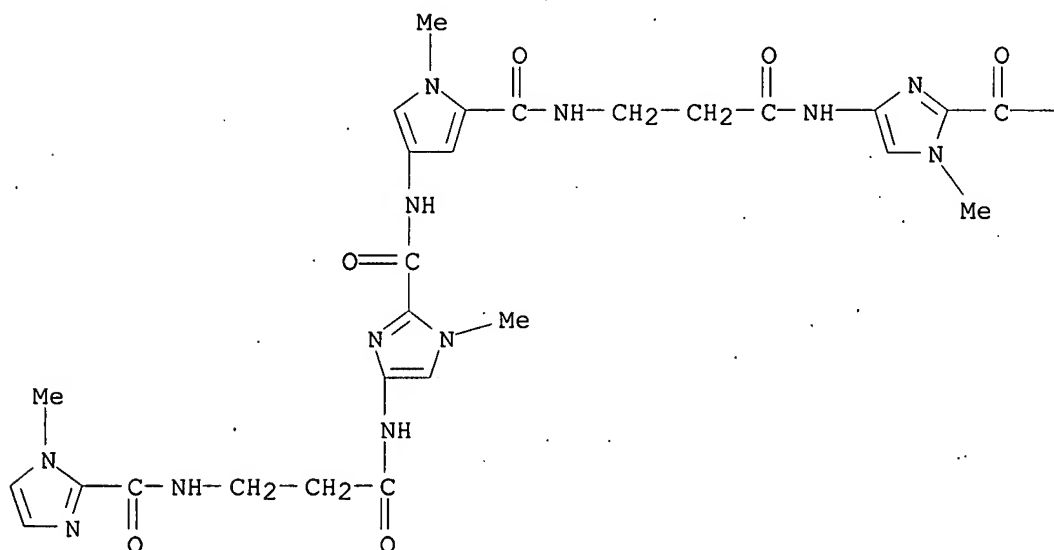
PAGE 1-C





RN 499202-64-1 CAPLUS

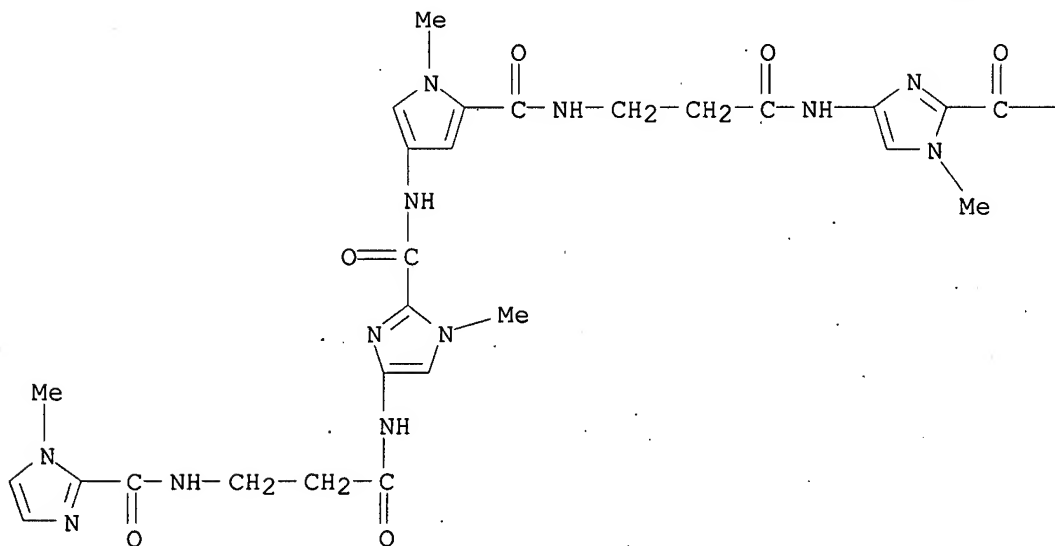
CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-[[2-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (9CI) (CA INDEX NAME)



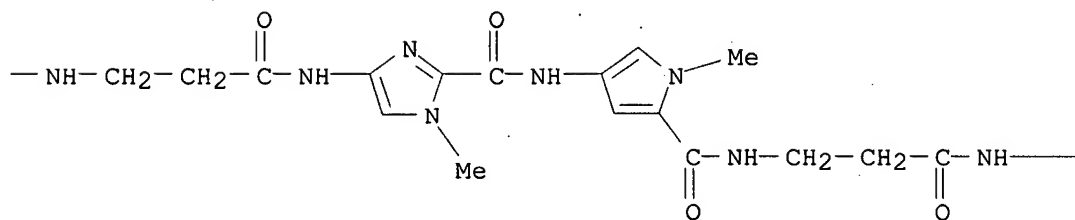
— (CH<sub>2</sub>)<sub>3</sub>—NMe<sub>2</sub>

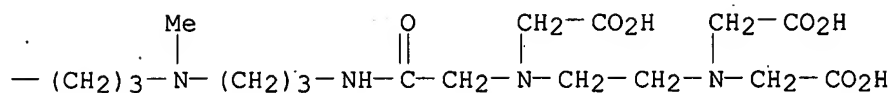
IT 499202-66-3P 499202-68-5P 499202-70-9P  
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation)  
 (DNA minor groove binding to polyamides containing either imidazole,  
 pyrrole or β-alanine in studies of minor groove recognition)  
 RN 499202-66-3 CAPLUS  
 CN 2,6,10,14,17,20-Hexaazadocosan-22-oic acid, 17,20-bis(carboxymethyl)-10-  
 methyl-1-[1-methyl-4-[[[1-methyl-4-[[3-[[[1-methyl-4-[[3-[[[1-methyl-4-  
 [[1-methyl-4-[[3-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-  
 oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-  
 yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1-  
 oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]-1,5,15-  
 trioxo- (9CI) (CA INDEX NAME)

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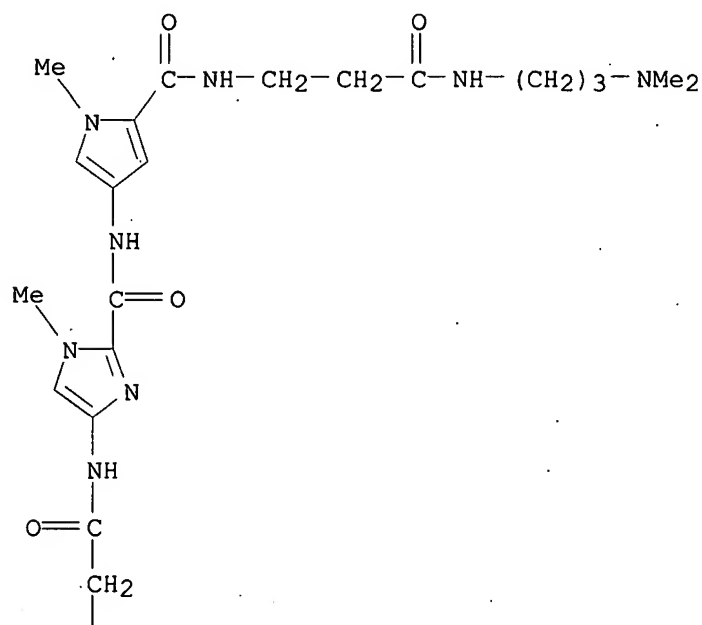
PAGE 1-B

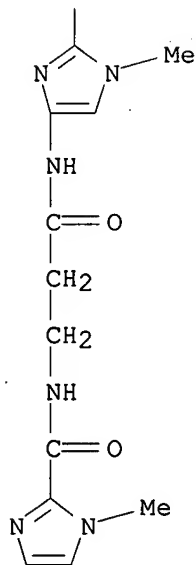
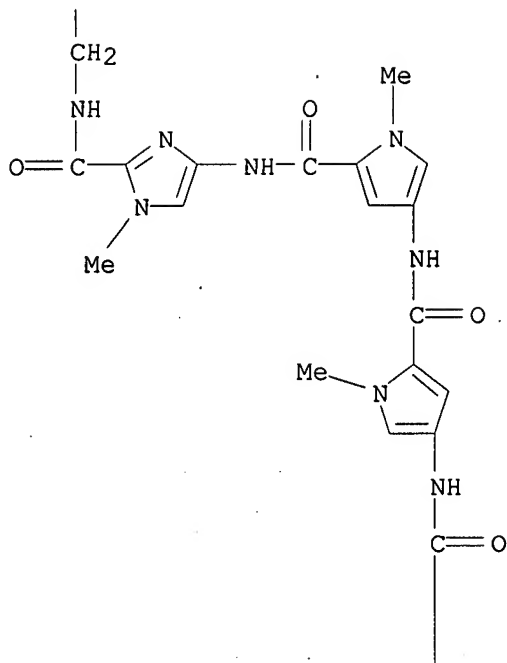




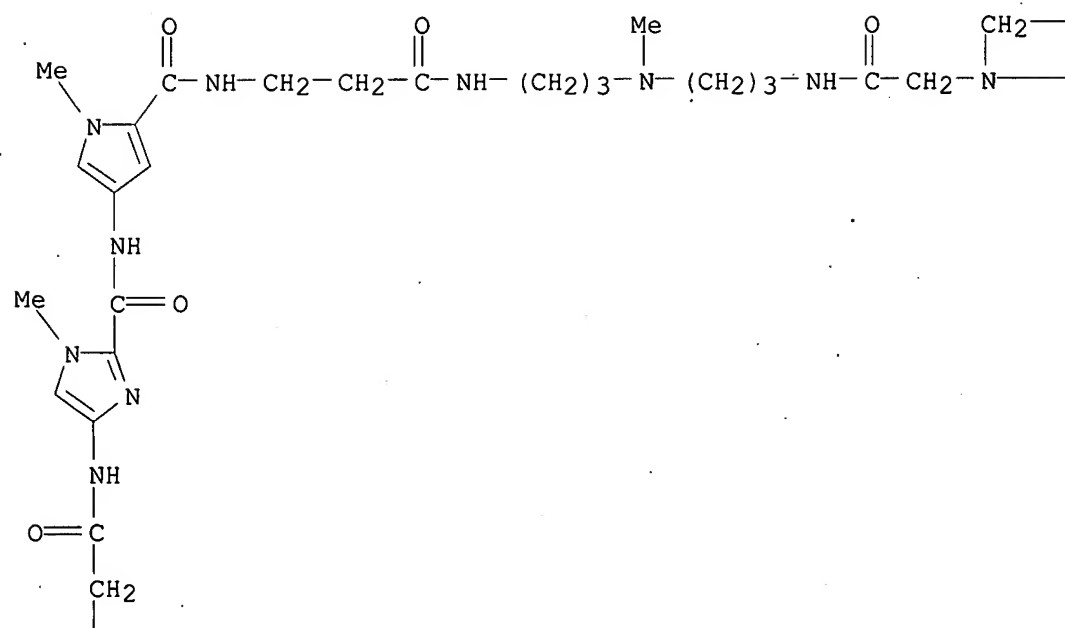
RN 499202-68-5 CAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[2-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (9CI)  
(CA INDEX NAME)

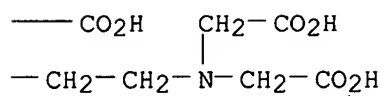


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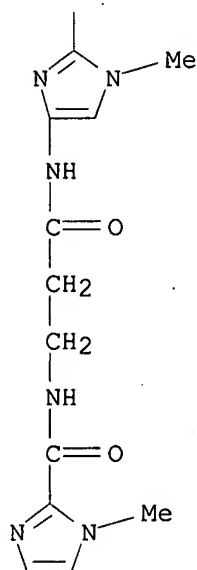
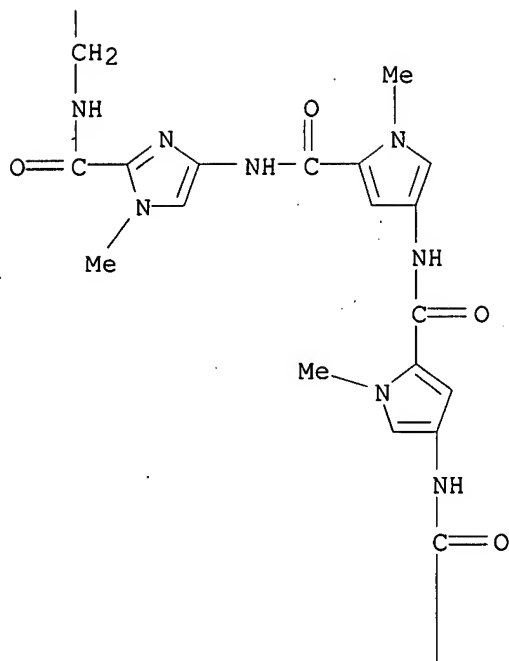
PAGE 1-A



PAGE 1-B







REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:367288 CAPLUS

DOCUMENT NUMBER: 136:369714

TITLE: Preparation of novel benzimidazole derivatives for treatment of eosinophilia, bronchial asthma, allergic disease, cancer, and viral infections

INVENTOR(S): Mizuguchi, Kiyoshi; Ohzawa, Nobuo; Nakai, Yasuhiro; Matsuura, Kazuyuki; Ohnishi, Shuhei; Kato, Yutaka; Satoh, Tsutomu

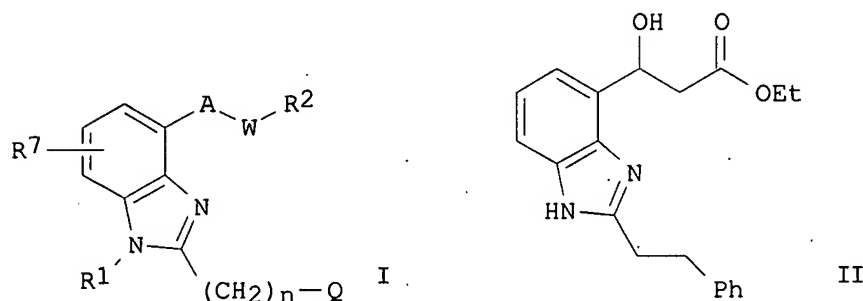
PATENT ASSIGNEE(S): Mochida Pharmaceutical Co., Ltd., Japan  
 SOURCE: U.S., 47 pp., Cont.-in-part of U.S. Ser. No. 214,274,  
 abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6387938	B1	20020514	US 2000-614877	20000712
WO 9801429	A1	19980115	WO 1997-JP2308	19970703 <--

W: CA, JP, KR, US  
 RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:  
 JP 1996-176711 A 19960705  
 WO 1997-JP2308 A2 19970703  
 US 1998-214274 B2 19981231  
 JP 2000-35283 A 20000214

OTHER SOURCE(S): MARPAT 136:369714  
 GI



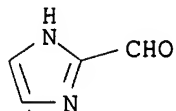
AB Title compds. I [wherein R<sup>1</sup> = H or alkyl; R<sup>2</sup> = cyano, hydroxymethyl, 2-(2-imidazolyl)ethenyl, (un)substituted Ph, CO<sub>2</sub>R<sup>3</sup>, or CONR<sup>4</sup>R<sup>5</sup>; R<sup>3</sup> = H or alkyl; R<sup>4</sup> and R<sup>5</sup> = independently H, alkyl, CH<sub>2</sub>CO<sub>2</sub>R<sup>6</sup>, CH(CH<sub>2</sub>Ph)CO<sub>2</sub>R<sup>6</sup>; when one of R<sup>4</sup> or R<sup>5</sup> = CH<sub>2</sub>CO<sub>2</sub>R<sup>6</sup> or CH(CH<sub>2</sub>Ph)CO<sub>2</sub>R<sup>6</sup>, the other = H; R<sup>6</sup> = alkyl; R<sup>7</sup> = H, OH, halo, or alkyl; R<sup>8</sup> = H or acetyl; R<sup>9</sup> = H, acetyl, PhSO<sub>2</sub>, or (un)substituted benzoyl; A = CO, CH(OR<sup>8</sup>), CH<sub>2</sub>O, CH(NHR<sup>9</sup>)CH<sub>2</sub>, CH:CH, or CH<sub>2</sub>CH<sub>2</sub>; Q = (un)substituted Ph; W = single bond or CH<sub>2</sub>; n = 0-2; and salts thereof] were prepared as interferon-γ (IFN-γ) enhancers. Thus, CO<sub>2</sub>(g) was blown into a mixture of 4-acetyl-2-(2-phenylethyl)benzimidazole (preparation given), K<sub>2</sub>CO<sub>3</sub>, 18-crown-ether, and DMSO while stirring at room temperature for 6 h to give, after workup, 3-[2-(2-phenylethyl)benzimidazol-4-yl]-3-oxopropanoic acid. Esterification with 25% HCl-EtOH, followed by treatment with NaBH<sub>4</sub> in EtOH, afforded II. The latter inhibited the increase of eosinophil counts in mice injected i.p. with pig ascaris extract by 59% at 10 mg/kg/day for 10 days. Oral administration of 10 mg/kg/day, 30 mg/kg/day, and 100 mg/kg/day doses of II for 14 days to tumor-bearing mice enhanced IFN-γ production of spleen cells to 125 pg/mL, 194 pg/mL, and 263 pg/mL, resp., compared to 40 pg/mL for the control. Pharmaceutical formulations, e.g. capsules containing II, were also prepared I are useful for the prevention and/or treatment of eosinophilia, bronchial asthma, and allergic diseases, and may serve as antitumor agents or antiviral agents.

IT 10111-08-7, 2-Imidazolecarboxaldehyde  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant; preparation of benzimidazole derivs. as IFN-γ enhancers for treatment of eosinophilia, bronchial asthma, allergic disease, tumors,

and viral infections)

RN 10111-08-7 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 18 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:242507 CAPLUS

DOCUMENT NUMBER: 137:109235

TITLE: Assembling of complex heterocyclic ensembles, Schiff bases, from 5-amino-3-[2-(4,5,6,7-tetrahydroindolyl)]pyrazoles and 1-vinyl(ethyl)-2-formylimidazoles

AUTHOR(S): Baikalova, L. V.; Sobenina, L. N.; Mikhaleva, A. I.; Zyryanova, I. A.; Chipanina, N. N.; Afonin, A. V.; Trofimov, B. A.

CORPORATE SOURCE: Faworsky, Irkutsk Institute of Chemistry, Siberian Division, Russian Academy of Sciences, Irkutsk, 664033, Russia

SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2001), 37(12), 1736-1740  
CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:109235

AB Condensation of 5-amino-3-(2-pyrrolyl)pyrazoles with 1-vinyl(ethyl)-2-formylimidazoles afforded complex heterocyclic ensembles: Schiff bases containing pyrrole, pyrazole, and imidazole rings. The cis/trans-orientation of the CH=N and CH<sub>2</sub>=CH groups and the E-isomeric structure of the Schiff bases under study with respect to the imine fragment were determined. The presence of intra- and intermol. hydrogen bonds was also established.

IT 69767-96-0 111851-98-0

RL: RCT (Reactant); RACT (Reactant or reagent)

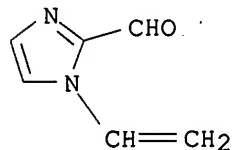
(preparation of complex heterocyclic Schiff bases from

5-amino-3-[2-(4,5,6,7-

tetrahydroindolyl)]pyrazoles and 1-vinyl(ethyl)-2-formylimidazoles)

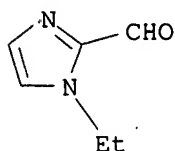
RN 69767-96-0 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde, 1-ethenyl- (CA INDEX NAME)



RN 111851-98-0 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde, 1-ethyl- (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 19 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:242144 CAPLUS

DOCUMENT NUMBER: 137:47270

TITLE: Reaction of tribenzylphosphine oxide with aldehydes

AUTHOR(S): Gusarova, N. K.; Ivanova, N. I.; Reutskaya, A. M.; Arbuzova, S. N.; Baikalova, L. V.; Deryagina, E. N.; Russavskaya, N. V.; Trofimov, B. A.

CORPORATE SOURCE: Faworsky Irkutsk Institute of Chemistry, Siberian Division, Russian Academy of Sciences, Irkutsk, 664033, Russia

SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2001), 37(12), 1726-1730

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:47270

AB Tribenzylphosphine oxide readily and stereoselectively reacted with aliphatic, aromatic, and heteroarom. aldehydes, for example benzaldehyde, in the presence of strong bases yielding exclusively (or predominantly) E-isomers of 1-organyl-2-phenylethenes, for example (E)-1,2-diphenylethene, and dibenzylphosphinic acid.

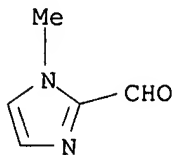
IT 13750-81-7, 1-Methylimidazole-2-carboxaldehyde 111851-98-0, 1-Ethylimidazole-2-carboxaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(Wittig-Horner reaction of tribenzylphosphine oxide with aldehydes)

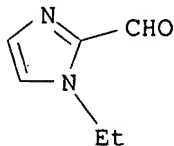
RN 13750-81-7 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde, 1-methyl- (CA INDEX NAME)



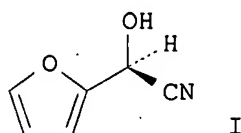
RN 111851-98-0 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde, 1-ethyl- (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 20 OF 1823 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:116928 CAPLUS  
 DOCUMENT NUMBER: 137:33174  
 TITLE: A study of asymmetric hydrocyanation of heteroaryl carboxaldehydes catalyzed by (R)-oxynitrilase under micro-aqueous conditions  
 AUTHOR(S): Chen, Peiran; Han, Shiqing; Lin, Guoqiang; Huang, Hao; Li, Zuyi  
 CORPORATE SOURCE: Chinese Academy of Sciences, Shanghai Institute of Organic Chemistry, Shanghai, 200032, Peop. Rep. China  
 SOURCE: Tetrahedron: Asymmetry (2001), 12(23), 3273-3279  
 CODEN: TASYE3; ISSN: 0957-4166  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 137:33174  
 GI



AB Furancarboxaldehydes, thiophenecarboxaldehydes, pyrrolocarboxaldehydes, pyridinecarboxaldehydes, 1-methyl-2-imidazolecarboxaldehyde, and 2-thiazolecarboxaldehyde underwent asym. hydrocyanation catalyzed with (R)-oxynitrilase from almond meal under micro-aqueous conditions. Thus, reaction of 2-furancarboxaldehyde with HCN in (Me<sub>2</sub>CH)<sub>2</sub>O in the presence of pulverized water-saturated almond kernels gave the (S)-hydroxyfurylacetonitrile I in 100% yield and with 99% ee. Substituent effects on the hydrocyanation reactions were significant. Thus, hydrocyanation of 2-pyridinecarboxaldehyde gave the corresponding cyanohydrin in 42% yield with no stereoselectivity, while the reaction with 6-bromo-2-pyridinecarboxaldehyde gave the corresponding cyanohydrin in 92% yield and with 65% ee.

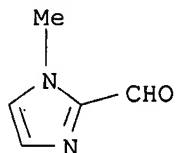
IT 13750-81-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(asym. synthesis of optically active cyanohydrins by (R)-oxynitrilase catalyzed hydrocyanation of heteroaryl carboxaldehydes)

RN 13750-81-7 CAPLUS

CN 1H-Imidazole-2-carboxaldehyde, 1-methyl- (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 13:37:36 ON 19 JUN 2007)

FILE 'REGISTRY' ENTERED AT 13:37:49 ON 19 JUN 2007

L1               STRUCTURE UPLOADED  
L2               50 S L1  
L3               16926 S L1 FUL

FILE 'CAPLUS' ENTERED AT 13:38:23 ON 19 JUN 2007  
L4               2927 S L3 FULL  
L5               1823 S L4 AND PY<2002

FILE 'STNGUIDE' ENTERED AT 13:39:48 ON 19 JUN 2007

FILE 'CAPLUS' ENTERED AT 13:40:23 ON 19 JUN 2007

FILE 'STNGUIDE' ENTERED AT 13:41:42 ON 19 JUN 2007

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COST IN U.S. DOLLARS

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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STN INTERNATIONAL LOGOFF AT 13:47:57 ON 19 JUN 2007